

CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Development Impact Mitigation Fees - Adopt Resolution

MEETING DATE: September 4, 1991

PREPARED BY: Public Works Director

RECOMMENDED ACTION: That the City Council adopt the Development Impact Fee

Resolution.

BACKGROUND INFORMATION: The Development Impact Mitigation Fees discussed at the

August 21 meeting are contained in the implementing

Resolution which can be adopted September 4.

(The necessary ordinance, also up for adoption at the September 4 meeting, contains the change requested by the Council regarding the time of collection.) The fees would go into effect 60 days after adoption of the Resolution. Note that the Resolution only contains the fee per Residential Acre Equivalent (RAE). The ordinance, in Section 15.64.060, contains the formula to calculate the fees. The fees have been calculated for the General Plan land use categories and are shown in Exhibit A. This will be the summary used at the front counter and in other requests for fee information.

Also, as requested by the Council, a summary of the changes made to the Nolte/McDonald final report is contained in Exhibit B. Rather than highlight additional copies of the report, a written summary was prepared to provide a permanent record and to provide some explanation for the changes.

FUNDING: N/A

Gov Jack L. Ronsko
Public Works Director

Prepared by Richard C. Prima, Assistant City Engineer

JLR/RCP/1m

Attachments

cc: Finance Director
City Attorney
Noite and Associates
Angus McDonald and Associates

mailing list

PPROVED: Thos. a. Silerson

THOMAS A. PETERSON
City Manager

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1991/92 Fee and Service Charge Schedule

Development Impact Mitigation Fees

RAE = Residential Acre Equivalent

Final Draft 8/20/91

| Land use Category | | Water | | Sewer | | Storm D | raineae | sweets | 5 |
|--------------------------|--------------|-------|----------|-------|----------|---------|----------|--------|----------|
| | | RAE | | | Fee/Acre | RAE | Fee/Acre | RAE | Fee/Acre |
| Residential | | _ | | | | | | | |
| Low Density | 1 | | | | \$1,090 | 1.00 | \$7,910 | 1.00 | \$5.470 |
| Medium Density | } | | \$11,190 | 1.96 | \$2,140 | 1.00 | \$7,910 | 1.96 | 510.720 |
| High Density | | | \$19,930 | 3.49 | \$3,800 | 1.00 | \$7,910 | 3.05 | \$16,680 |
| East Side Residential | | | \$5,710 | 1.00 | \$1,090 | 1.00 | \$7,910 | 1.00 | \$5,470 |
| Planned Low Density | \$40,170 | 1.00 | \$5.710 | 1.00 | \$1,090 | 1.00 | \$7.910 | 1.00 | \$5.470 |
| Planned Med. Density | \$61,190 | 1.96 | \$11,190 | 1.96 | \$2,140 | 1.00 | \$7,910 | 1.96 | \$10.720 |
| Planned High Density | \$107,210 | 3.49 | \$19,930 | 3.49 | \$3,800 | 1.00 | \$7,910 | 3.05 | \$16,680 |
| commercial | | | | | - 1 | | - 1 | | |
| Neighborhood | \$41,280 | 0.64 | \$3,650 | 0.94 | \$1,020 | 1.33 | \$10,520 | 1.90 | \$10,390 |
| General | \$49,470 | 0.64 | \$3,850 | 0.94 | \$1,020 | 1.33 | \$10,520 | 3.82 | \$20,900 |
| Downtown | \$41,280 | 0.64 | \$3,650 | 0.94 | \$1,020 | 1.33 | \$10,520 | 1.90 | \$10,390 |
| Office | \$54,720 | 0.64 | \$3,650 | 0.94 | \$1,020 | 1.33 | \$10,520 | 3.27 | \$17,890 |
| <u>Industrial</u> | | | | | | | _ [| | |
| Light | \$30,900 | 0.26 | | | \$460 | 1.33 | S10.520 | 2.00 | \$10,940 |
| Heavy | \$29,820 | 0.26 | | | \$460 | 1.33 | \$10,520 | 1.27 | \$6,950 |

| | Police | | Fire | I | Parka & | Recreation | General | City |
|-----------------------|--------|----------|------|----------|---------|------------|---------|----------|
| | RAE | Fee/Acre | RAE | Fee/Acre | RAE | Fee/Acre | RAE | Fee/Acre |
| Residential | | | | | | | | |
| Low Density | 1.00 | | | \$520 | 1.00 | | | \$6,380 |
| Medium Density | 1.77 | \$1,960 | 1.96 | \$1,020 | 1.43 | | | \$9,120 |
| High Density | 4.72 | \$5,240 | | \$2,250 | 2.80 | 1 | | \$17,860 |
| East Side Residential | 1.09 | \$1,210 | 1.10 | 3570 | 1.10 | 513,180 | 1.10 | \$7,020 |
| Planned Low Density | 1.00 | \$1,110 | 1.00 | \$520 | 1,00 | \$11,980 | 1.00 | \$6,380 |
| Planned Med. Density | 1.77 | \$1,960 | 1.96 | \$1,020 | 1.43 | \$17.130 | 1.43 | \$9,120 |
| Planned High Density | 4.72 | \$5,240 | 4.32 | \$2.250 | 2.80 | \$33,540 | 2.80 | \$17,860 |
| Commercial | | | | | | | | • |
| Neighborhood | 4.28 | \$4,750 | 2.77 | \$1,440 | 0.32 | \$3.830 | 0.89 | \$5,680 |
| General | 2.59 | \$2.870 | 1.93 | \$1,000 | 0.32 | \$3,830 | 0.89 | \$5,630 |
| Downtown | 4.28 | - 1 | | \$1,440 | 0.32 | \$3,830 | 0.89 | \$5,680 |
| Office | 3.72 | \$4,130 | 2.46 | \$1,280 | 0.54 | 96,470 | 1.53 | \$9,760 |
| Industrial | | | | | | | | |
| Light | 0.30 | \$330 | 0.54 | \$330 | 0.23 | \$2,760 | 0.64 | \$4,080 |
| Heavy | 0.19 | \$210 | 0.61 | \$320 | 0.33 | \$3.950 | 0.93 | 65,930 |

See Note 4.

Reference: LMC Chapter 15.64 & Resolution 9 1 -m

Notes

- 1. This schedule is a summary only; refer to the reference cited for details of applicability end interpretations.
- 2. LMC = Lodi Municipal Code; PWD = Public Works Department
- 3. Fees must be paid before work is echeduled or applicable Map/Permit issued.
- 4. Special area assessments or charges required by reimbursement agreements are not included in this summary.

Approved: Jack L. Ronako, Public Works Director

Date

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SUMMARY OF CHANGES MADE IN DEVELOPMENT IMPACT FEE STUDY FINAL REPORT FROM APRIL 1991 DRAFT

(Note: Correction of typographical errors and minor editorial changes not included.)

- 1) (Page 1, 6, 8, 10, 12, 28, 29, 37, 39, 49, 65, 66, 72, 76, 87, 93, all project tables, all fee tables) The references to fiscal year increments and project phasing were changed to delete the year 1990/91 and the fees were updated to 1991/92.
- 2) (Page 2, top paragraph) The basis of cost was not updated; explanation as to how the cash flow model inflates costs was added.
- 3) (Page 3, all fee tables) All residential acre equivalents were consistently calculated to two decimal places; previously, some were rounded to the nearest whole number, some were not.
- 4) (Page 5, 11) Summary Tables if-? and 2-2 were updated to reflect other changes in the report.
- 5) (Page 7) The following sentence regarding time **of** payment was added: "In addition, parcels that are permitted to develop without a final subdivision map (which happens often for commercial and industrial development) will also pay the fees at building permit."
- 6) (Page 9) The third paragraph beginning "The cash flow analysis ..." was revised to further explain interfund borresing.
- 7) (Fage 12, fourth paragraph) An estimate of redevelopment that will pay fees was included in the development forecast **as** described in %hefourth paragraph.
- 8) (Page 13) The last paragraph describing administrative requirements was added.
- 9) (Page 16) The "Existing Deficiencies" (water) section was revised to describe ongoing projects and those already appropriated.
 - in the "Planned Water Facilities" section, **two** sentences beginning with "Minor projects • •" were added.
- 10) (Page 29) The final report contains a typographical error. The water fee per low-density residential acre is \$5,710 as shown in Table 3-2, not \$5,504 as shown on Page 29.

SUMMARY OF CHANGES MADE IN DEVELOPMENT IMPACT FEE STUDY FINAL REPORT FROM APRIL 1991 DRAFT Page 2

- (Page 40, 41) The lift station calculation for Kettleman Lane was revised to reflect the additional office designation on the north side of Kettleman Lane. Cluff Avenue calculation was revised to change the Industrial Reserve. Both changes are per the adopted General Plan.
- 12) (Page 44, 47) Two existing reimbursement agreements were added as Storm Drain "projects".
- 13) (Page 46, 47) The costs for E and G basins were spread out to allow ?or project phasing and moved forward to better match the growth management plan.
- 14) (Page 65) In the fourth paragraph, the cest sharing for Lower Sacramento Road was clarified.
- 15) (Page 70, 78, 80, 81, 90) The General Plan, as adopted, required an update of the "persons served" calculations which slightly changed the analysis of existing deficiencies in the Police (Table 7-1), Parks and Recreation (Table 9-3), and General City Facilities (Table 10-1) categories which in turn revised the Project Tables. The standards for parks and recreation facilities, as approved at the June 21 special meeting, were retained. Since existing deficiencies are not included in the final fee calculation, this does not effect the fee.
- (Page 75) The phasing of the west side fire house was moved up as early **as** possible in the program.
- 17) (Page 76) The sentence "No personnel are included." was added to the top paragraph.
- 18) (Page 82, 84) Costs for some major park projects were spread out to provide earlier funding for design.
- 19) (Page 87) In the first paragraph on "Estimated Costs and Phasing", the sentence "The fee calculation methodology . . " was added.
- 20) (Page 89) The final report contains a typographica error. The "existing deficiency" for the City Hall addition is 27.5% per Table 10-1, not 27.8% as shown.

RCP/1m

RESOLUTION NO. 91-172

A RESOLUTION OF THE LODI CITY COUNCIL ESTABLISHING DEVELOPMENT IMPACT MITIGATION FEES FOR ALL DEVELOPMENTS WITHIN THE CITY OF LODI

WHEREAS, the Lodi City Council has adopted Ordinance No. 1518, creating and establishing the authority for imposing and charging Development Impact Mitigation Fees in the City of Lodi; and

WHEREAS, studies have been made and data gathered on the impact of contemplated future development on existing public facilities in the City of Lodi, along with an analysis of the need for new public facilities and improvements required by new development; and

WYFREAS, the relationship between new development, the needed facilities, and the estimated cost(s) of these improvements is included in the study entitled "Development Impact Fee Study" prepared by Nolte and Associates and Angus McDonald & Associates dated August 1991; and

WHEREAS, such information was available for public inspection and review 14 days priar to the public hearing; and

WHEREAS, the City Council finds that:

- 1. The purpose of these fees is to finance Water, Sewer, Storm Drainage, Streets, Police, Fire, Parks and Recreation, and General City facilities and to reduce the facility service impacts and related problems caused by new development within the City of Lodi;
- 2. The fees collected pursuant to this resolution shall be **used** to finance only the public facilities described or identified **in** said study;
- 3. After considering available information and data, and the testimony received at the public hearing, the Council approves said study and incorporates such study herein, and further finds that new development within the City of Lodi will generate additional impacts within the General Plan area and will contribute to the degradation of the existing facilities and the overall quality of life in that area;
- 4. There is a demand in this described impact area for such facilities which have not been constructed or have been constructed, but new development has not contributed its fair share toward these facility costs and said facilities have been called for in or are consistent with the City of Lodi's General Plan, and or appropriate Master Plans.
- 5. The facts and evidence presented establish that there is a reasonable relationship between the need for the described public facilities and the impacts of the types of development for which the corresponding fee is charged,

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and, also there is a reasonable relationship between the fee's use and the type of development for which the fee is charged, as these reasonable relationships or nexus are in more detail described in the studies and data referenced above:

- 6. It is appropriate to establish the fees on a city-wide basis in order to construct facilities in a timely and cost-effective manner and reduce the demand for replacement of existing facilities in order to accommodate new development; except for those sewer lift stations needed to serve a specific area;
- 7. The cost estimates set forth in the Study are reasonable cost estimates for constructing these facilities, and the fees expected to be generated by new development will not exceed the total of such costs plus a finance charge where interfund borrowing is necessary to fund improvements in a timely manner;
- 8. The City has appropriated funds and established a Capital Improvement Program which includes the projects shown in the Study;

NOW, THEREFORE, IT IS RESOLVED by the Lodi City Council that:

1. DEFINITIONS.

The definitions contained in Ordinance 1518, Lodi Municipal Code Section 15.64.020, are hereby incorporated by reference as if ful y set forth.

2. FEES

The City Council hereby repeals Resolution 88-165 "Storm Drainage Fee", adopted December 21, 1988, and Resolution 89-186 "Amending Storm Drainage Fees", adopted December 20, 1989, and herein provides for a fee structure for public facilities as follows:

| FEE CATEGGRY | FEE PER RESIDENTIAL | ACRE | EQUIVALENT | (RAE) |
|--------------|---------------------|------|------------|-------|
| | | | | |

City-Wide Fees

| 1. | Water | \$ 5,710.00 |
|----|-------------------------|-------------|
| 2. | Sewer | \$ 1,090.00 |
| 3. | Storm Drainage | \$ 7,910.00 |
| | Streets | \$ 5,470.00 |
| 5. | Police | \$ 1,110.00 |
| 6. | Fire | \$ 520.00 |
| 7. | Parks and Recreation | \$11,980.00 |
| 8. | General City Facilities | \$ 6,380.00 |

Supptemental Specific Area Fees

| A. | Kettleman Lane Lift Station | \$ 1,610.00 |
|----|-----------------------------|----------------|
| B. | Harney Lane Lift Station | \$ 830.00 |
| C. | Cluff Avenue Lift Station | \$ 1.170.00 |

The Kettleman Lane Lift Station area consists of approximately 102 acres bounded on the south by the north right-of way of Kettleman lane (State Highway 12); on the east by the west line of the Woodbridge Irrigation District Canal right-of-way; on the north by the south line of the Woodbridge Irrigation District Canal right-of-way

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and the quarter-quarter Section Line north of Kettleman Lane and on the west by the property line located approximately 1185 feet east of the centerline of Lower Sacramento Road, plus the area of Tract No. 2378, Sunwest Unit No. 12 as filed for record in Book 30, Maps and Plats at page 52, San Joaquin County records, all as shown on Exhibit A.

The Harney Lane Lift Station area consists of approximately 292 acres bounded on the south by the north right-of-way of Harney Lane; on the east by the west line of the Woodbridge Irrigation District; on the north, east of Lower Sacramento Road by the quarter-quarter Section Line north of Harney Lane, and west of Lower Sacramento Road by the property line located approximately 2300 feet north of the center line of Harney Lane; and on the west by the General Plan Boundary, approximately 1/2 mile west of Lower Sacramento Road as shown on Exhibit 6.

The Cluff Avenue Lift Station area consists of approximately 158 acres bounded on the south by the right-of-way of the Southern Pacific Transportation Company (SPT) tracks along Victor Road (State Highway 12); on the east by the right-of-way of the Central California Traction Company (CCT); on the north by the Mokelumne River and on the west by the property lines approximately one-eighth mile west of the centerline of Guild Avenue; plus the 7.7 acre parcel located east of the CCT and north of the SPT shown as Parcel A per the Parcel Map filed for record in Book 11 of Parcel Maps at page 73 San Joaquin County Records.

3. CALCULATION OF FEE.

Development Impact Mitigation Fees shall be calculated by the Public Works Director in accordance with Chapter 15.64 of the Lodi Municipal Code and this resolution.

The project acreage shall exclude portions of property left vacant and not to be used for storage, parking, or other uses related to the project. Where the project adds to or incorporates existing buildings or improvements, the acreage shall be adjusted by the Public Works Director to account for this existing use. For purposes of this section, "existing" shall mean any building or improvement which is in existence or for which a permit has been obtained upon the effective date of this resolution.

Where projects include a change in land use categories, the appropriate difference in RAE factors shall be computed by the Public Works Director. Where the project results in a less intensive land use involving a lower RAE factor, a fee credit in lieu of a refund shall be made. Record of the previous higher RAE factor shall be maintained by the Public Works Director for that parcel for a period of time not to exceed ten years and shall, during that time, be applied toward future improvements on that parcel.

4. <u>EFFECTIVE DATE</u>

The Development Impact Fees adopted in this Resolution shall take effect 60 days after adoption. For projects in which an agreement and memorandum of understanding for public improvement fees has been executed and a final map or building permit has been approved, such fees shall be due and payable thirty days after the above effective date or thirty days after billing by the City, whichever is later.

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I hereby certify that Resolution No. 91-172 was passed and adopted by the City Council of the City of Lodi in a regular meeting held September 4, 1991, by the following vote:

Ayes: Council Members - Pennino, Sieglock, Snider and Hinchman (Mayor)

Noes: Council Members - Pinkerton

Absent: Council Members - None

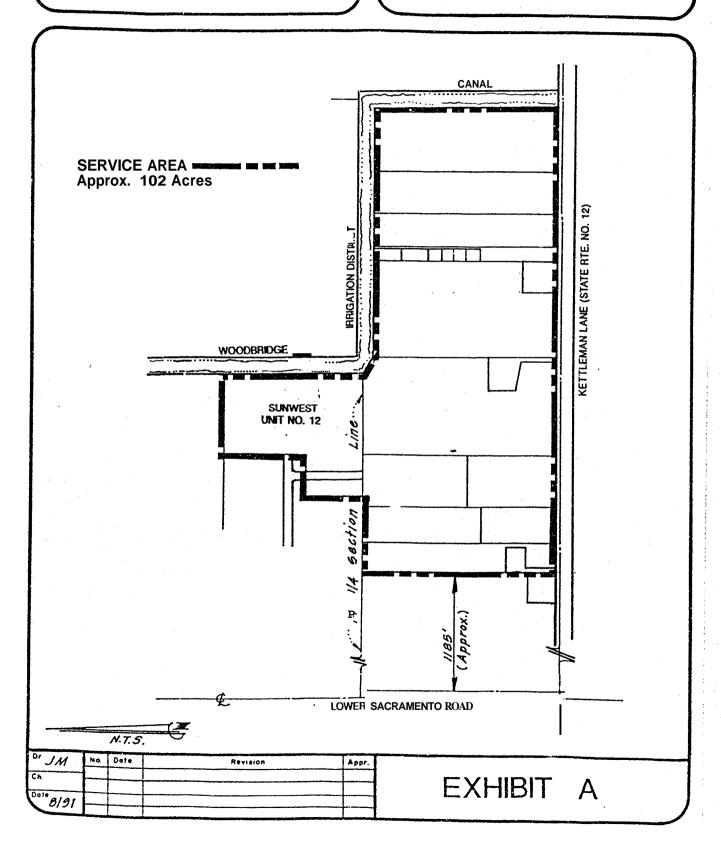
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Alice M. Reinche
City Clerk



CITY OF LODI

PUBLIC WORKS DEPARTMENT

KETTLEMAN LANE LIFT STATION SERVICE AREA

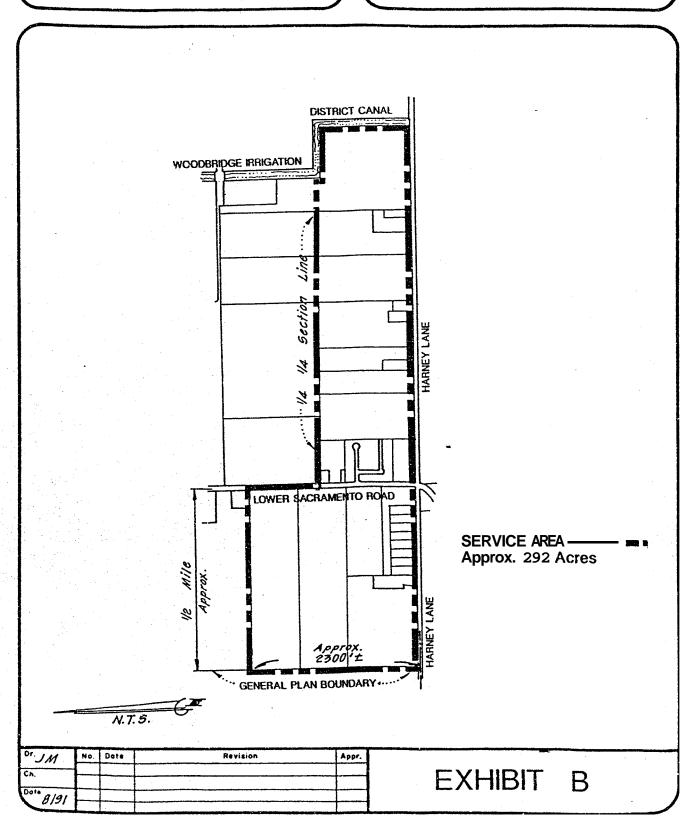




CITY OF LODI

PUBLIC WORKS DEPARTMENT

HARNEY LANE LIFT **STATION** SERVICE AREA



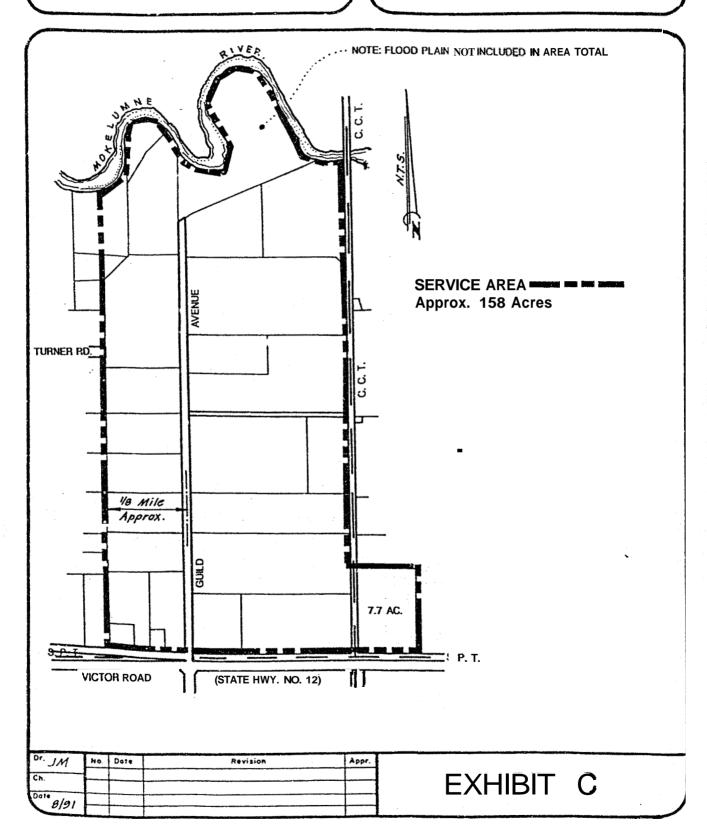


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PUBLIC WORKS DEPARTMENT

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FINAL REPORT

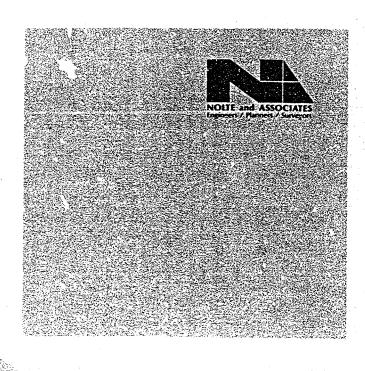
CITY OF LODI

DEVELOPMENT IMPACT FEE STUDY

AUGUST 1991

PREPARED BY:

NOLTE AND ASSOCIATES
ANGUS MCDONALD AND ASSOCIATES





Manteca

August 20, 1991 2529-88-00

Mr. Jack Ronsko Director of Public Works City of Lodi 221 W. Pine Street todi, CA 95240

SUBJECT:

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DEVELOPMENT IMPACT FEE STUDY FINAL REPORT

Dear Mr. Ronsko:

This report has been prepared for the City $\mathbf{o}\,\mathbf{f}$ Lodi to evaluate the capital improvements required to serve expanding areas of the City identified in the General Plan. The primary objectives of the study were to identify capital improvements, prepare estimates of probable construction cost, forecast the timing of capital improvements, and develop a financing plan to fund the construction of the capital improvements.

The principal results of the study are summarized in Chapter 2, Methodology and Results. All comments received from the City and others on the draft report have been incorporated into this final version.

We appreciate the assistance and cooperation we received from City staff during the course of the study. Richard Prima deserves special recognition for his tireless efforts on the project.

It has been our pleasure to serve the City of Lodi on this important project and **we** look forward to again serving the City on future projects.

Very truly yours,

NOLTE AND ASSOCIATES

F. Wally Sandelin Group Manager

FWS/ler (CL1223-B)

Enclosure

PROFESSIONAL COMMENTS OF CALIFORNIA

NOLTE and ASSOCIATES

Engineers / Planners / Surveyors

123 North Sycamore Avenue, Suite 101, Manteca, CA 95336 Tel: (209) 239-9080

D R A F T (8/21/91)

RESOLUTION NO. 91-

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WHEREAS, studies have been made and data gathered on the impact of contemplated future development on existing public facilities in the City of Lodi, along with an analysis of the need for new public facilities and improvements required by new development; and

WHEREAS, the relationship between new development, the needed facilities, and the estimated cost(s) of these improvements is included in the study entitled "Development Impact Fee Study" prepared by Nolte and Associates and Angus McDonald & Associates dated August 1991; and

WHEREAS, such information was available for public inspection and review 14 days prior to the public hearing; and

WHEREAS, the City Council finds that:

- 1. The purpose of these fees is to finance Water, Sewer, Storm Drainage, Streets, Police, Fire, Parks and Recreation, and General City facilities and to reduce the facility service impacts and related problems caused by new development within the City of Lodi;
- 2. The fees collected pursuant to this resolution shall be used to finance only the public facilities described or identified in said study;
- 3. After considering available information and data, and the testimony received at the public hearing, the Council approves said study and incorporates such study herein, and further finds that new development within the City of Lodi will generate additional impacts within the General Plan area and will contribute to the degradation of the existing facilities and the overall quality of life in that area;
- 4. There is a demand in this described impact area for such facilities which have not been constructed or have been constructed, but new development has not contributed its fair share toward these facility costs and said facilities have been called for in or are consistent with the City of Lodi's General Plan, and or appropriate Master Plans.
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1. DEFINITIONS.

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| | | | | | | |

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| | | A 7 7 1 0 0 0 |
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Supplemental Specific Area Fees

| A. | Kettleman Lane Lift Stat.on | \$ 1,610.00 |
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| В. | Harney Lane Lift Station | \$ 830.00 |
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3. CALCULATION OF FEE.

Development Impact Mitigation Fees shall be calculated by the Public Works Director in accordance with Chapter 15.64 of the Lodi Municipal Code and this resolution.

The project acreage shall exclude portions of property left vacant and not to be used for storage, parking, or other uses related to the project. Where the project adds to or incorporates existing buildings or improvements, the acreage shall be adjusted by the Public Works Director to account for this existing use. For purposes of this section, "existing" shall mean any building or improvement which is in existence or for which a permit has been obtained upon the effective date of this resolution.

Where projects include **a** change in land use categories, the appropriate difference in RAE factors shall be computed by the Public Works Director. Where the project results in a **less** intensive land use involving **a** lower RAE factor, a fee credit in lieu of a refund shall be made. Record of the previous higher RAE factor shall be maintained by the Public Works Director for that parcel for a period of time not to exceed ten years and shall, during that time, be applied toward future improvements on that parcel.

4. EFFECTIVE DATE

The Development Impact Fees adopted in this Resolution shall take effect immediately upon the effective date of Ordinance No. 1518. For projects in which an agreement and memorandum of understanding for public improvement fees has been executed and a final map or building permit has been approved, such fees shall be due and payable thirty days after the above effective date or thirty days after billing by the City, whichever is later.

I hereby certify that Resolution No. 91-__ was passed and adopted by the City Council of the City of Lodi in a regular meeting held _____, by the following vote:

Ayes: Councilmembers

Noes: Councilmembers

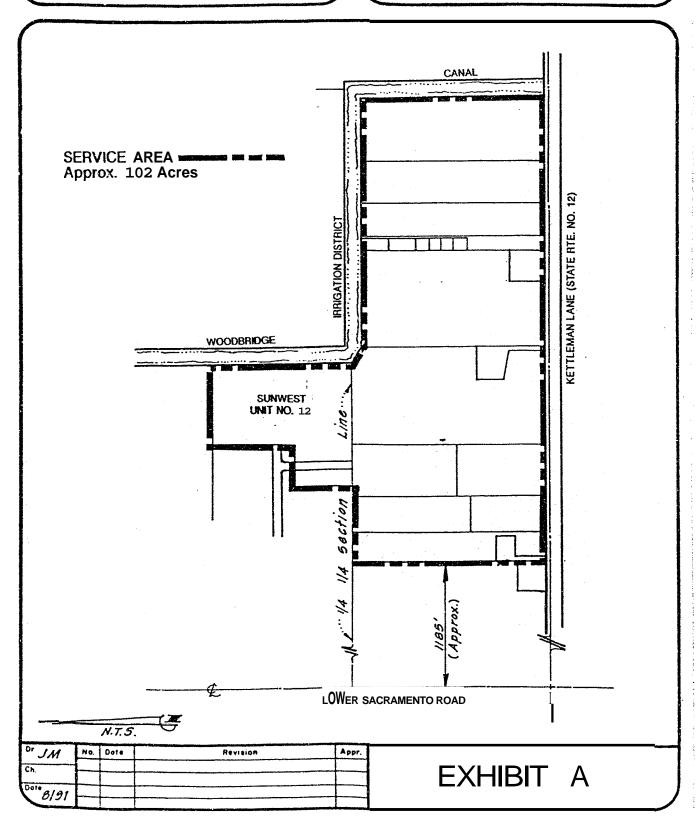
Absent: Councilmembers

Alice M. Reimche City Clerk



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KETTLEMAN LANE LIFT STATION SERVICE AREA



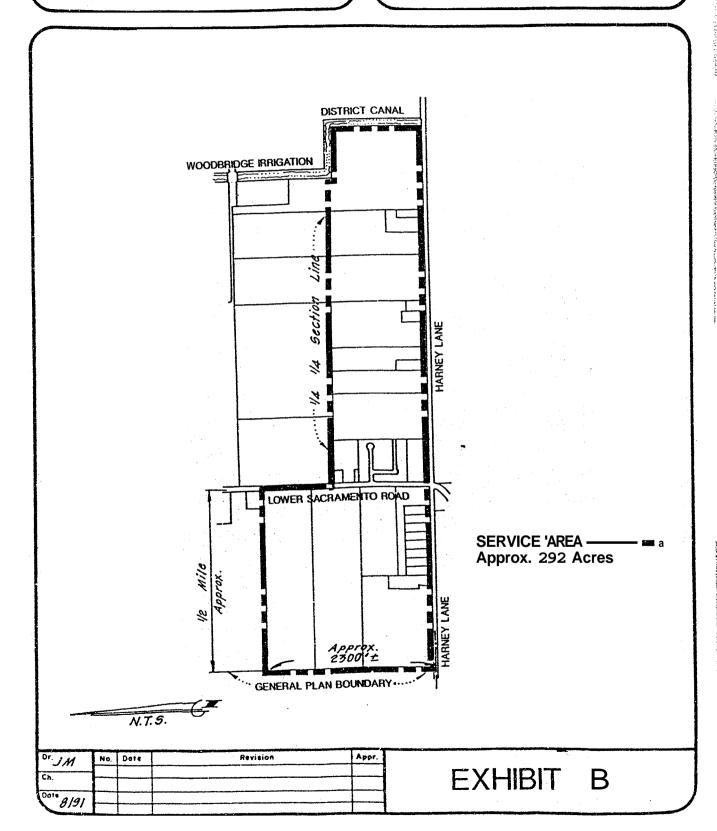


SALAN CONTRACT

CITY OF LODI

PUBLIC WORKS DEPARTMENT

HARNEY LANE LIFT STATION SERVICE AREA



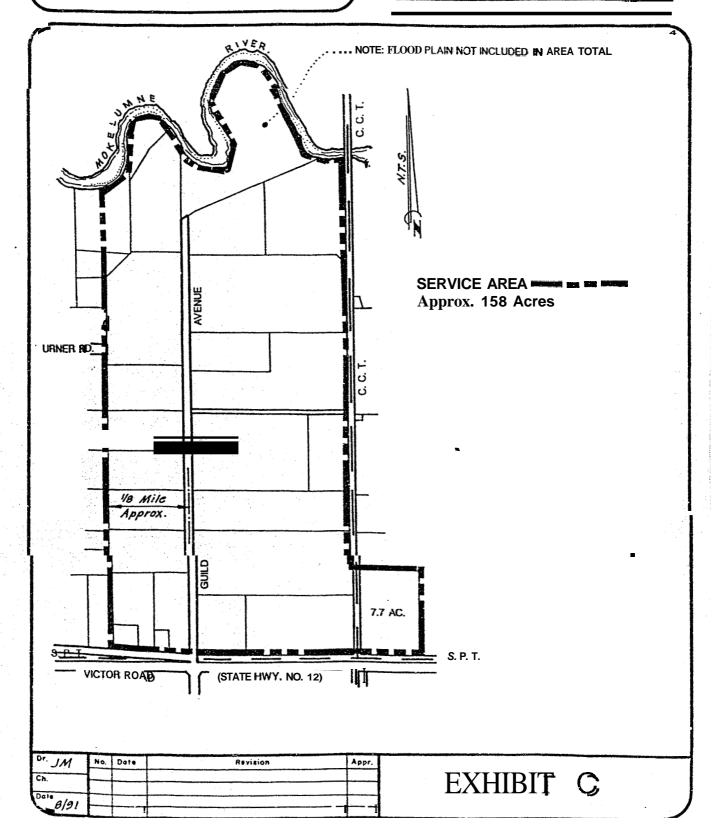


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CITY OF LODI

PUBLIC WORKS DEPARTMENT

CLUEF AVENUE CLIPIT STATEME SERVICE AREA SERVICE AREA



FINAL REPORT

CITY OF LODI

DEVELOPMENT IMPACT FEE STUDY

Prepared for:

CITY OF LODI

Prepared by:

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August 1992

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CHAPTER 1

INTRODUCTION

INTRODUCTION

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The enactment of AB 1600 (Government Code §66000 et. seq.) has generated formal and stringent requirements for documenting the basis for valid development impact fees. In response to the changing legal climate, as well as the desire to have a comprehensive financing plan for the various public and numerous new facilities in Lodi, the current fees must be updated and new numerous fees need to be implemented.

?he goal of the Development Impact fee Study is to prepare development impact fees which will provide funds to construct various types of improvements such that the City of Lodi's adopted level of service is maintained throughout the planning period. This goal will be attained consistent with the requirements of AB 1600.

Purpose of the Fee

The purpose of development impact fees is to provide adequate financing for the various public facility projects that are required to implement the City's General Plan. The fee is imposed such that new development will bear its fair share of providing adequate infrastructure.

The fees collected will be used to finance the design, construction, and inspection of streets and roads, Water, Sewer, Drainage, Parks and Recreation, Police, Fire, and General City facilities. The fee revenue will also be used for a major update of the fee program, which is to be performed every 5 years.

Planning Period

The proposed General Plan before the City of Lodi covers a planning period of April 1987 to 2007. For the purposes of the fee study, the planning period was broken down into fiscal year increments: 1991/92, 1992/93, 1993/94, 1994/95, 1995/96, 1996/97, 1997 - 2002, and 2002 - 2007. The planning increments are the basis for projecting fee collections, capital improvement expenditures and cash flow analyses.

Basis of Costs

Capital improvement schedules have been prepared for the Proposed General Plan that cover Water, Sewer collection (but not the wastewater treatment facility), Storm Drainage, Streets and Roads, Police, Fire, and General City facilities. Capital costs included in the General City facilities category are, for example, city hall expansion, 1 ibrary expansion, fee program monitoring, parking lot construction, and miscellaneous projects not falling

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into other infrastructure categories. Project descriptions for each project were developed with the assistance of City staff, other City-retained consultants, and the authors. For each major project, estimates of cost have been prepared utilizing current cost data from the City, recent bids for similar projects, contractors and suppliers. Estimates of cost are based upon January 1, 1990 dollars throughout this report. The Engineering News Record 20-Cities Average Construction Cost Index for January 1990 was, at that time, 4673. The cash flow model inflates the actual expenditures for public improvements (for both land and construction costs using the above index) to the midpoint of each fiscal year.

Background - Development Forecast

The first step in calculating a valid development impact fee is to prepare a forecast of the timing and rate at which the City will develop. This forecast must be consistent with Lodi's General Plan and Growth Management Ordinance.

The development forecast serves two purposes:

- The development forecast provides the basis for determining when the required infrastructure must be completed to maintain the targeted level of service set forth by the City.
- The development forecast plays a significant role in forecasting cash flow. The amount of development that occurs throughout the planning period determines the amount of the fee and the development in any particular year determines the total dollars that are available to fund improvement projects.

The forecast of final mapping was prepared per gross acre by the City of Lodi and is presented in Appendix A. Because the City will collect development impact fees at the time of the final subdivision map is recorded, a forecast of final mapping was used to estimate the inflow of cash. The construction capital outlay forecast was based upon the City's proposed Growth Management Plan which provided the probable location of development.

The annual update of the fee program will include an assessment of the extent to which development *in* todi has been occurring as forecasted. If rates of development begin to depart substantially from expectations, the development forecast and fee program will be updated based on **a** forecast that reflects then-current expectations.

Residential Acre Equivalents

After the amount of development was forecast for each land use category, a conversion was made into the number of Residential Acre Equivalents (RAE's) that would be developed, for each category of public improvements. An RAE factor measures the use or burden a land **use** places on a category of public improvements (e.g., water supply or roadway improvements) <u>relative</u> to the use

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or burden placed on those improvements by an acre of single family dwellings in the low-density residential category.

As one simple example, the water service RAE factors reflect relative water consumption. Since the Low Density residential category is selected as the use from which all other land uses are measured, this land use category has a RAE factor <u>for all services</u> equal 1.0 RAE per acre. All other RAE factors for the category of public services being considered are scaled relative to this "base" RAE factor for the Low Qensity Residential land use category.

For this example, the RAE factors for water are calculated in the following manner for low density and medium density residential land use categories. Assume a population and unit aensity as shown below.

| Land Use | <u>Pooulation</u> | Unit Density |
|----------------|-------------------|--------------|
| Low Density | 2.75/unit | 5/acre |
| Medium Density | 2.25/unit | 12/acre |

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Also, assume a per capita average water consumption of 285 gallons per day. Therefore, the water demand per acre can be calculated as follows:

Low Density: Demand = $2.75 \times 5 \times 285 = 3,919 \text{ gal/day/acre}$

Medium Density: Demand = $2.25 \times 12 \times 285 = 7,695 \text{ gal/day/acre}$

By this method, the results indicate that the demand of medium density residential land exerts a 2 times (7695/3919 = 1.96) greater demand upon water supply and transmission facilities than does low density residential. Therefore, a RAE factor of 1.96 is assigned to medium density residential for water remembering, of course, that low density residential is the baseline having a RAE factor of 1.0.

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CHAPTER 2

METHODOLOGY AND RESULTS

SUMMARY OF FUNDING SOURCES

Capital improvement projects to support the Proposed General Plan and other City improvements are to be funded through a number of sources. In the course of identifying Proposed General Plan capital improvements, a number of existing deficiencies were identified in each of the service areas that are not to be funded by development impact fees. City staff 'has projected, where possible, the sources of funds to finance those projects and/or portions of projects that are not development related as summarized in lable 2-1.

During the course of assembling the information included in this report and summarized in Table 2-1, a number of capital improvement plans, old and new, were reviewed. Information has been taken from these capital improvement plans and has been included in the table. Because the planning horizon for the capital improvement plans provided by the City are not synchronized with the General Plan period, the totals for capital improvements in Table 2-1 are not comparable to past City plans.

Phasing of Improvements for Maximum Efficiency

The matching of required public improvement projects to revenues from the development impact fee program was an iterative process that included close coordination with the Growth Management Plan. Two objectives were served:

- The location and timing of new public improvements in Lodi were planned to help assure an orderly and cost-efficient pattern of development.
- Public improvements were timed to assure that Level of Service (LOS) targets for each service were reasonably maintained.

Insofar as practical, the growth rates that are part of the Growth Management Plan can **be** accommodated <u>throughout</u> the City. Development can occur simultaneously in several areas of the City, rather than be concentrated in one area **at** a time. **A** temporary quasi-monopoly on supply of developable land is avoided.

The following paragraphs describe some of the basic assumptions and concepts that were used in arriving at project phasing. Additional information concerning specific facilities $i\,s$ included at the end.

Assumptions/Concepts

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?he following assumptions and concepts guided the process of preparing the development forecast and staging of public improvements to meet LOS targets.

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| | DESCRIPTION | PROGRAM COSTS (1) | GENERAL FUND | WATER FUND | SEWER FUND | STORM DRAIN FUND | SAN JOAQUIN COUNN | STATE AND FEDERAL FUND | GAS TAX FUND & T.D.A. | MEASURE 'K' FUNDS | OTHER | DEVELOPMENT IMPACT FEE FUND (2) |
|---|-------------------------|----------------------|-----------------|---------------|---------------|------------------------|-------------------------|------------------------------|-----------------------------|----------------------|-----------------|---------------------------------------|
| 1 | . Water Service | \$10,931,525 | \$0 | \$1,628,000 | to | to | to | \$0 | \$0 | to | to | \$9,303,525 |
| 2 | 2 Sewer Service (3) | \$3,013,920 | \$ ၁ | \$0 | \$1,005,500 | to | \$0 | to | to | \$0 | \$839,500 (4) | \$1,368,920 |
| 3 | Storm Drainage | \$17285.707 | \$930,000 | to | \$0 | \$121,000 | \$0 | \$0 | to | to | to | \$16,234,707 |
| 4 | . Streets and Roads | \$45,100,937 | \$13,800,000 | to | \$0 | \$0 | \$178,000 | \$831,000 | \$13,552,500 | \$1,450,750 | to | \$15,290,687 |
| 6 | . Police | \$2,578,000 | \$74,000 | \$0 | to | 30 | to | \$0 | to | SO | to | \$2,502,000 |
| а | . Fire | \$2,155,000 | \$1,090,000 | to | to | \$0 | to | to | to | to | to | \$1,065,000 |
| 7 | Parks and Recreation | \$30,191,000 | \$5,531,555 | SO | so | \$0 | \$0 | \$0 | to | \$0 | \$8,353,000 (5) | \$18,306,445 |
| a | General City Facilities | \$12,884,309 | \$1,159,125 | \$0 | to | to | \$0 | \$0 | to | to | \$0 | \$11,725,184 |
| | TOTAL: | \$124,138,398 | \$22,584,680 | \$1,628,000 | \$1,005,500 | \$121,000 | \$176,000 | \$831,000 | \$13,552,500 | \$1,450,750 | \$6,992,500 | \$75,796,468 |

NOTES

- 1. Costs do not include streets and utilities within development projects typically constructed by the developer as normal improvements.
- 2 "Development Impact FeeFund" will consist of eight separate funds, one for each category of facility.
- 3. Sewer service does not include the wastewater plant expansion which is funded by the existing wastewater connection fee.
- 4. Lift station area of benefit fees.
- 5. Hutchins Street Square Fund.
- 6. Fee amounts shown are for fiscal year 1991/1992.

- Development of new residential land will be limited such that the population will grow at 2% based on the September 1989 population. This allows more units (acres) in the early years than in middle years due to "catch up" after the wastewater moratorium.
- Commercial development will tend to follow residential development, except where one major development is currently being processed (Lodi Shopping Center, also called Sunwest Plaza, at the SE corner of Lower Sacramento Road and Kettleman Lane).
- Industrial development was assumed to grow uniformly.
- The implementation of the Growth Management Plan will discourage new developments that require extraordinary extension of utilities or other improvements, such as trunk lines through agricultural property. This will help lower the cost of development and reduce disruption of agricultural activities.

Procedure for Staging Public Improvements

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The specific steps that led to the staged Capital Improvements Program are described in the following paragraphs.

- The annual number of units to be allowed was converted to **acres** based on an average of seven units per acre per the Draft General Plan.
- Sub-areas surrounding the City were identified based on available storm drain basins, utility trunk lines, major streets, General Plan limits, and natural boundaries.
- The acreages were matched with the sub-areas and broken into three phases: one 6 year block followed by two 5 year blocks.
- The above two steps were repeated until the acreage provided in each phase matched the number of units in the first step.

The majority of the projects were then placed in the appropriate phase coinciding with development of the adjacent area. This would include projects in which the impact fee fund would be used in conjunction with frontage improvements by a developer such as for oversized lines and major street crossings. As noted in the assumptions, there should be few cases in which a utility must be extended outside the development. (Exceptions and clarifications are noted below.)

Careful attention was paid to the timing $o\,f$ construction of public improvements, compared to increases in development and demand for services. Each improvement was staged to insure that it would be completed and $i\,n$ place

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before the actual level of service had declined below the City's Level Of Service target.

In support of the objective of avoiding degradation of service level, the City of Lodi intends to collect development impact fees in advance of the date of final inspection or the date a Certificate of Occupancy is issued. Delaying residential fees to the time of occupancy would assure that completion of public improvements would considerably lag the residential development that is creating a significant percentage of the demand for the improvements. To avoid this situation, the City's fee ordinances will provide that development impact fees are due at the time that a final subdivision map is filed. Public capital improvements can then be constructed in parallel with the process of readying parcels for development and constructing residences. The service capacity provided by the public improvements can be in place at the time that increased demand actually occurs.

It is possible that developed parcels within the existing General Plan will undergo redevelopment or a change in the land use resulting in assessment of additional fees. In such instances, fees would be collected upon issuance of the building permit. In addition, parcels that are permitted to develop without a final subdivision map (which happens often for commercial and industrial development) will also pay the fees at building permit.

The present document constitutes a "...proposed construction schedule or plan..." for seventeen years. The various fee ordinances will ensure that "...an account has been established and funds appropriated..." Accordingly, the quoted requirements of Government Code Section 66007 have been met. Lodi can collect residential impact fees in advance of final inspection or occupancy.

Comments **on** Specific Projects and Services

The following paragraphs explain the reasons for the staging of certain key projects.

Streets and Roads

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- The Highway 12 (Kettleman Lane) Project Study Report was placed early in the program. This Report will take some time to do and the results will affect the scope and cost of subsequent projects.
- Street capacity improvements were phased based on examination of the present and future volumes, capacity of existing improvements and the capacity after the new improvement.

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Parks and Recreation

- The Master Plan Study was placed early since it will take some time to do and the results will affect the scope and cost of subsequent projects.
- Parks would be completed by the end of the phase in which adjacent development occurred.

Police, Fire and General Facilities

- Projects were phased based on discussions with the Police and Fire Chiefs and other department heads.
- The west side fire house was placed in the first phase since it is located in the corresponding area.

Identifying Projects Curing Existing Deficiencies

The entire list of capital improvements was reviewed to identify projects which primarily cured existing deficiencies. Projects that were excluded from the fee progrzm based on this evaluation are any type of replacement, repair or renovation of an existing facility which provides for little or no added capacity.

In addition, large projects, or groups of projects, in Parks and Recreation, Police and General City Facilities were evaluated on an individual basis. The results of this level of analysis is that certain projects were split between new development (fee program funded) and existing development (other financing source).

Interfund Borrowing

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The staging of capital improvements frequently produces cash flow deficits in one or several of the fee funds. This is the result of large projects that, once completed, provide capacity beyond the year of construction - and beyond the time in which the funds are required to construct the project. One approach to deal with cash flow deficits is through interfund borrowing.

Interfund borrowing is predicated on the creation of a "Pooled Money Fee Account" into which the annual surplus from each fee account flows and from which borrowing to cure cash flow deficits occurs. Each fee (i.e. Water, Sewer, etc.) is calculated and accounted for separately. Positive fund balances earn interest revenue and negative fund balances accrue interest to be paid. Under this approach the development impact fee has two parts.

1. Portion Of The Fee From Construction Of Improvements: This part of the fee is equivalent to the average cost of the programmed improvements per RAE.

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2. Portion Of The Fee From Finance Charge: The finance charge is set such that the ending balance in the particular fee fund is as close to zero as possible. In cases where the cash flow is relatively smooth such that no borrowing will take place, it is entirely possible that the "Finance Charge" will be negative. This is the result of interest <u>earninss</u> over the course of the program-

On the other hand, when funds must be borrowed a positive finance charge, and thus higher fee, is required to pay the interest cost involved in borrowing among funds.

The test of whether or not interfund borrowing is successful in compensating for the cash flow deficits is the ending fund balance in the Pooled Money Fee Account. If this figure is positive throughout the program then interfund borrowing has served its purpose and cured the cash flow problems. If any of these figures are negative, interfund borrowing has not fully alleviated the cash flow deficits. Adjustments to the project staging, or borrowing from an outside source would be necessary to fund the program using the interfund borrowing approach.

The cash flow analysis indicates that almost every fee has cash flow problems. These issues have been resolved through inter-fee-fund borrowing such that the program of capital improvements are funded in the year required. The interfee-fund borrowing mechanism is such that funds borrowing money pay interest, and funds lending money receive interest. As a result, the fee in a fund which lends money to other fee funds is not any higher than it otherwise would be to fund the public improvements.

Alternatives to this approach include borrowing from other City funds, which would also entail repayment with interest, and "borrowing" from developments early in the program. This would entail charging a higher fee to the initial development projects and repaying it in later years with fees from subsequent development. Both alternatives require additional administrative effort and result in a higher fee.

Detailed Methodology

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A project phasing schedule is prepared, as determined by the development forecast and the adopted service standard, showing the timing of the expenditures required for each improvement. A forecast of Residential Acre Equivalents is prepared, then converted into a forecast of revenues collected from the fee in each period. The fee and cost of capital improvements are inflated, for purposes of analysis, at the same rate. However, it was assumed that the inflation effects on the fee are lagged one year due to the fact that the fee $i\,s$ only updated at the end of each year. Because the General Plan was not completed $i\,n$ the 1990-91 fiscal year, all capital costs were inflated to January 1991 dollars and the fees then calculated.

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The amount of the finance charge is manipulated until:

- All projects have been constructed at their then actual year cost;
- Only a nominal surplus remains in the Development Impact Fee account at the end of the planning period.

Summary of Fees

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A summary of the development impact fees is presented by major land use category in Table 2-2. This summary presents the summation of the impact fee imposed for each of the relevant facility categories in the development impact fee plan. The fee for each particular category of public improvement is presented in the applicable chapter (e.g. Streets and Roads - Chapter 6). Each fee, except portions of the sewer impact fee is imposed citywide throughout the entire planning period.

Each fee will be fine-tuned annually to reflect inflation and other minor adjustments. Annual updates of the fee should be based upon the increase in construction costs for the year as determined by comparing the ENR 20 Cities Average Construction Cost Index for the beginning and end of the year. The first two annual fee updates (1989-90 to 1990-91 and 1990-91 to 1991-92) is reflected throughout the report. Fee calculations for this report were done to the nearest \$1.00 and have been rounded to the nearest \$10.00.

Changes In Land Use Entitlements

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Parcels may undergo redevelopment or a change to a more intensive land use. The development impact fees that will be due reflect the <u>difference</u> between the fee appropriate to the more intense use and the fee that would have been appropriate to the previous use. In concept, the various classes of infrastructure had the capacity to meet the demand placed by the original land use. The intensification of use will create additional demand. Additional capacity must be purchased through the incremental development impact fee.

For the case when a proposed development would result in a more intense demand upon infrastructure than planned, it may be appropriate to assess a special fee. Purpose of such a special fee would solely be to insure that services/benefits provided by the City are fairly paid for by the user. Of course, by the nature of setting fees based upon a service standard, the focus is upon the City and neighborhood averages. Therefore, demand deviation above and below the average is assumed. Defining the maximum permitted demand deviation before assessing a special fee should be up to the Public Works Director.

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TABLE 2-2 SUMMARY OF DEVELOPMENT IMPACT FEES **ALL SERVICES**

| | | | | | | | _ | | | | | | | l . | s and | Genera | • |
|------------------------|-----------|--------|----------|--------|---------|----------|-----------------|---------|--------------------|--------|-------------|----------|---------------|--------|----------------------|----------|----------|
| | Total | Wa | ter | Ses | wer | Storm D | <u>)rainage</u> | Streets | <u>& Roads</u> | Po | <u>lice</u> | <u> </u> | <u>re</u> | Recre | ation | Facilit | ies |
| Land Use Categories | Fees | RAE(1) | Fee | RAE(1) | Fee | RAE(1) | Fee | RAE(1) | Fee | RAE(1) | Fee | RAE(1) | Fee | RAE(1) | Fee | RAE(1) | Fee |
| DEOLD CHELL | | | | Į | | | | | | | | | | | | 1 | |
| RESIDENTIAL | | | | | | | 47.040 | | | 1 | | l | **** | | **** | | |
| Low Density | \$40,170 | 1.00 | \$5.710 | 1.00 | \$1,090 | 1.00 | \$7,910 | 1.00 | \$5,470 | 1.00 | \$1,110 | 1.00 | \$520 | 1.00 | \$11,980 | 1 | \$6,380 |
| MediumDensity | \$81,190 | 1,96 | \$11,190 | | \$2,140 | 1.00 | \$7.910 | 1.98 | \$10,720 | 1.77 | \$1,960 | 1.96 | \$1.020 | 1.43 | \$17.130 | 1.43 | \$9,120 |
| High Density | \$107.210 | 3.49 | \$19,930 | 3.49 | \$3,800 | 1.00 | \$7,910 | 3.05 | \$18,680 | 4.72 | \$5,240 | 4.32 | \$2.250 | 2.80 | \$33,540 | 2.80 | \$17,860 |
| East Side Residential | \$42,160 | 1.00 | 55.710 | 1.00 | \$1,090 | 1.00 | \$7,910 | 1.00 | \$5.470 | 1.09 | \$1.210 | 1.10 | \$570 | 1.10 | \$13.180 | 1.10 | \$7,020 |
| PLANNED RESIDENTIAL | | | | | | | | | | | | | | | | İ | |
| Low Density | \$40,170 | 1.00 | \$5.710 | 1.00 | \$1.090 | 1,00 | \$7,910 | 1.00 | \$5.470 | 1,00 | \$1,110 | 1.00 | \$520 | 1.00 | \$11.980 | 1.00 | \$6,380 |
| Medium Density | \$61,190 | 1.96 | \$11,190 | 1.96 | \$2,140 | 1,00 | \$7,910 | 1.96 | \$10,720 | 1.77 | \$1,960 | 1.96 | \$1.020 | 1.43 | \$17.130 | 1.43 | \$9,120 |
| High Density | \$107.210 | 3.49 | \$19,930 | 3.49 | \$3,800 | 1.00 | \$7,910 | 3.05 | \$16,680 | 4.72 | \$5.240 | 4.32 | \$2.250 | 2.80 | \$33,540 | 2.80 | \$17,860 |
| COMMERCIAL | | | | | | | | | | | |] | | | | | |
| Neighborhood Commercia | \$41.280 | 0.64 | \$3,850 | 0.94 | \$1,020 | 1.33 | \$10,520 | 1.90 | \$10,390 | 4.28 | \$4.750 | 2.77 | \$1,440 | 0.32 | \$3,830 | 0.89 | \$5,680 |
| General Commercial | \$49,470 | 0.64 | \$3,650 | | \$1,020 | 1.33 | \$10,520 | 3.82 | | 2.59 | \$2.870 | 1 | \$1,000 | 0.32 | \$3,830 | 0.89 | \$5,680 |
| Downtown Commercial | \$41,280 | 0.64 | \$3.650 | 0.94 | \$1.020 | | \$10,520 | 1.90 | \$10,390 | 4.28 | \$4,750 | | \$1,440 | 0.32 | \$3,830 | 0.89 | \$5,680 |
| Office Commercial | \$54,720 | 0.64 | \$3,650 | | \$1,020 | 1.33 | \$10,520 | 3.27 | \$17,890 | 3.72 | \$4.130 | } | \$1.280 | 0.54 | \$6.473 | 1.53 | \$9,760 |
| Onice Commercial | \$54,720 | 0.04 | \$3,000 | 0.94 | \$1,020 | 1.55 | \$10,520 | 3.27 | \$17,050 | 3.72 | ¥2.130 | 2.30 | μ1.200 | 0.5 | \$0. 1 /3 | 1.33 | 48,700 |
| INDUSTRIAL | | | | | | | | | | | | | - | | | | |
| Light Industrial | \$30,900 | 0.26 | \$1.480 | 0.42 | \$460 | 1,33 | \$10,520 | 2.00 | \$10,940 | 0.30 | \$330 | 0.64 | \$330 | 0.23 | \$2,760 | 0.64 | \$4,080 |
| Heavy Industrial | \$29,820 | 0.26 | \$1,480 | 0.42 | \$460 | 1.33 | \$10,520 | 1.27 | \$6.950 | 0.19 | \$210 | 0.61 | \$320 | 0.33 | \$3,950 | 0.93 | \$5,930 |
| | | | | | | <u> </u> | | | | L | | <u> </u> | | L | | <u> </u> | |

Source: Note & Associates and Angus McDonald & Associates NOTES:

⁽¹⁾ Residential Acre Equivalents

⁽²⁾ Fee amounts shown are for fiscal year 1991/1992.

An example of more intense demand for service than provided for in the fee structure is a shopping center that is located in a neighborhood commercial land use. The specific use (shopping center) is allowed in the land use (Neighborhood Commercial). In the case of the Streets and Roads Fee, a net trip rate of 10.5 peak hour trips is assumed for Neighborhood Commercial but the City Circulation Plan assumes 30 peak hour trips for shopping center uses. In this case, the deviation above the service standard provided by the fee is approximately 200%. Therefore, a special fee is recommended.

The opposite example to an intensification of use would be a parcel that develops at a use that is less intense than its land use entitlement. The various fee ordinances should provide for a "exception procedure" to deal with instances that simply were rot Contemplated at the time that the ordinance was adopted. As a generalization, exceptions should be granted sparingly. Facilities were sized based on the expected land uses and in many cases capacity will be provided in advance of total demand because of the inability to build certain classes of projects in stages. If exceptions are granted easily, particularly in the later years of the planning period, sufficient development impact fees will not be available to complete the Capital Improvements Program.

An additional consideration is that although a parcel may be developed initially in a less intense use, it may undergo redevelopment in future years. The full fee would be due. If, subsequently the parcel was redeveloped, it would receive credit for the fact that the full fee had been paid. Only if the future use was more intense than the original land use category would a higher fee be due.

The development forecast on which the fees were based includes new development and an estimate of redevelopment. If proposals for significant amounts of redevelopment cr reuse are forthcoming in future years, the effect of this can be considered during the annual update of the fee ordinances.

Successfully implementing a 16 year, \$124,000,000 Capital Improvements Program is **a** major undertaking. It will require a very serious effort at program management and monitoring of actual performance as compared to plan.

The Capital Improvements Program contains specific line items to provide the cost of staff or consultant services for Program Management for the fee program. A budget is also provided for a major General Plan Update/Capital Improvements Program and Development Impact Fee Update every fifth year.

The program management function should include the responsibility of monitoring actual performance compared to that planned. This monitoring function can be combined with any environmental impact monitoring program as

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is recommended either in an Environmental Impact Report (EIR) which are a part of revisions to the City's update of the General Plan or in the EIR's for major projects *or* Capitol Improvement Projects.

The City is required to make findings each fiscal year regarding any fees unexpended **or** uncommitted in its account five or more years after deposit. If the findings indicate that there is not a reasonable relationship between the fee and the purpose for which it was charged it must be refunded to the then current property owners. Additionally, the City must, each year, prepare an accounting of each fee account. This *is* to include the beginning and ending balances, interest and other income, and expenditures and refunds made from the account. The annual accounting of each fee account *is* to be prepared within **60** days of the close of each fiscal year and must be made available to the public.

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CHAPTER 3

WATER SERVICE

OVERVIEW

Water service to Lodi residents is provided by the City. Major components of the water system include wells, distribution piping and a single elevated storage tank. The following sections will describe the City's existing supply and distribution facilities, current planning for expansion of the system, policy relating to cost sharing for major facilities, and existing water service deficiencies.

Supply

Water for the City of Lodi is pumped directly from wells located within the City limits. At present, wells discharge directly into the distribution system. Of the 25 wells needed to serve the exist ng City, 20 are currently producing. Three wells are not producing due to contamination. Funds have been appropriated to construct two new wells and to construct two replacement wells. Also, funds have been appropriated to design treatment facilities for the removal of DBCP.

Water quality in the aquifers tapped by City wells is generally good. Recently adopted Department of Health Service (DHS) standards for dibromochloropropane (DBCP) will impact the City because the DBCP concentration at 11 well sites exceeds the new State standard. Presently, the City is preparing to conduct pilot studies of granular activated carbon filtration units to remove the DBCP from the water. With respect to DBCP, the better wells are located in the northeast sector of the General Plan area.

Groundwater levels within the basin have steadily dropped over the last years. Concerns for salt water intrusion is a regional concern but may not be a threat to Lodi due to influence of the Mokelumne River as a major contributor to replenishment of the groundwater basin.

Well yields in Lodi are good. Individual wells produce an average of 1,600 gallons per minute. Pumping levels vary across the well field by approximately **80** feet, with the shallowest water in the northeast area and the deepest water in the southwest area. The City operates a Supervisory Control and Data Acquisition (SCADA) system to assist in operating the well field, maintaining pressures in the system and recording operating data.

Distribution System

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1 % 1000

\$ 50 Existing distribution piping within the City ranges in size from 2 to 14 inch. By current standards, any distribut on piping smaller than 6 inches is

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substandard. Smaller pipe was primarily used in the older portions of town and it has, in many cases, been constructed in backyards and alleys.

Backbone of the City distribution system consists of a network of 10 and 14 inch pipe laid on an intersecting grid. Grid intersections are typically separated by a distance of 1/4 to 1/2 mile.

Pressures within the distribution system are maintained using an elevated tank and with assistance from the **SCADA** system. Water elevations in the tank are consistently 165 to 180 feet, resulting in a 49 to 55 pound per square inch pressure at the tank.

Water Master Plan

Current planning for the expansion of water supply and distribution facilities to serve the City through the period of the General Plan is embodied in the "Water Master Plan" prepared in 1990. Based upon the General Plan projected population and average water demands of 285 gallons per capita per day, total average day water demand at 2007 will be 22.1 million gallons per lay. Existing (1987) average day demand is 12.58 million gallons per day.

A number $\mathbf{o}\,\mathbf{f}$ planning and design recommendations were presented in the Water Master Plan. Those recommendations that affected the information presented in this report are summarized below.

- I. Design for future wells should conform to that for recently constructed wells: 21, 22, and 23.
- 2. Well and distribution system should be capable of meeting maximum day demands with 20% of the wells out of service.
- 3. For each 2,000 equivalent persons added to the system, a new well should be constructed.
- 4. One of every three wells should be equipped with standby power.
- . 5. Re-waluate the Water Master Plan at least every 5 years.

Water Reimbursement Policy

Under the City's Water Main Extension policy, applicants are reimbursed a portion of the construction cost of oversize mains and major crossings. Commonly, city's and agencies share in the cost of constructing special items of infrastructure, especially, since these special items are typically part of the backbone of the system.

For oversize mains, the reimbursement policy applies to water mains larger than ${\bf 8}$ inches in diameter. Major crossings covered by this policy are Woodbridge Irrigation District canals, Southern Pacific Transportation

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Company, Central California Traction Company, Highway 99, Highway 12 west of Highway 99, Lower Sacramento Road, and Hutchins Street south of Kettleman Lane. For major crossings, the City will reimburse one half the cost of construction.

City water reimbursement policy is reasonable for the facilities to which it applies. In developing the fee program for water service, the existing policy has been applied to oversizing of water mains and construction of major crossings. For the purposes of this report, reimbursable construction costs are assumed to include materials, construction, administrative, engineering and inspection. Administrative and engineering reimbursement is limited to 10% by City ordinance.

Existing Deficiencies

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The Water Master Plan identified a number of existing deficiencies in the water distribution system. These deficiencies generally include replacement of older pipe and construction of additional mains to reinforce the distribution network in older areas of the City. The work on main replacement will continue to be an ongoing program throughout the City. Funds to provide capacity (wells) for existing City development(s) have previously been appropriated. Significant water quality (DBCP) deficiencies exist at 12 of the 20 producing wells. Estimated cost to correct the pipeline and water quality deficiencies is 58.2 million. Pipeline reconstruction will be funded through the City water fund. DBCP facilities for existing wells will be constructed using borrowed State funds that will be repaid with water service rates.

Specific listings of the projects earmarked to correct existing deficiencies are not included in this report. Estimates of probable construction cost have been developed for the existing deficiency projects identified by the City. Total estimated cost to construct these projects is 51,628,000. Funds to construct these projects will come primarily from the Water Fund.

PLANNED WATER FACILITIES

Water facilities to serve buildout of the General Plan were identified in the Water Master Plan. As part of the public facilities financing effort of the General Plan, specific project descriptions were generated for **those** improvements identified by the Water Master Plan. Generally this effort included defining the length and size of pipe and appurtenant facilities; defining the additional equipment to be provided at the wells; and identifying the canal, street and railroad crossing that involve cost sharing by the City. A summary of these facilities is presented below and described in Table 3-1. Project numbers listed in Table 3-1 are used to identify the project locations on Figure 3-1. Minor projects, (mainly water main extensions) are shown separately for administrative purposes; they are subtotaled as one "project" under the fee program. This will allow greater flexibility in providing

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TABLE 3 - 1 DEVELOPMENTRELATED CAPITAL COSTS AND PHASING WATER

21-Aug-91

| Project Number | Description | Program Cost | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2007 |
|-------------------|--|-----------------|--------------------|---------|---------|---------|---------|---------|---------|------------|-----------------|
| WATER M | AIN EXTENSIONS | | | | | | | | | | |
| | Turner Rd. transmission main consisting of 2,050 if 10-inch water main west from the Central Calif. traction Co. (oversized main) | \$16,000 | \$16,000 | to | to | to | w | \$0 | \$0 | 52.813 | \$13,387 |
| | Turner Road transmission main (AWSI001) includes construction of the main under the Central Calif. Traction Co. (cost sharing) | \$20,000 | \$20,000 | \$0 | to | to | to | w | W | \$0 | \$20,000 |
| | Lodi Avenue transmission main consisting of 1,200 if 10-inch water main easterly from Guild Ave. to Central Calif. Traction Company (oversized main) | \$9,000 | \$9,000 | to | so | SO | to | w | so | \$1,470 | \$7,530 |
| | 1.350 If 10-inch water main southerly from Lodi Avenue, (oversized main) (Cluff Ave extension) | \$11,000 | \$11,000 | \$5,500 | \$0 | 80 | \$0 | \$5,500 | w | · W | |
| | Guild Avenue transmission main consisting of 6,600 If 10-inch water main along hature Guild Avenue between Pine and Kettleman. (oversized main) | \$38,000 | \$36,000 | W | so | \$0 | \$0 | SO | w | \$28,000 | \$0 |
| | Guild Avenue Main (MSWI004) also excludes construction of the main under the Central Calif. Traction Co. RR Tracks. (cost sharing) | \$20,000 | \$20,000 | W | \$0 | \$0 | so | to | so | \$20,000 | to |

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TABLE 3 - 1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING WATER

21-Aug-91

| Project Number | Description | Program Cost | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2007 |
|-------------------|--|-----------------|--------------------|------------|------------|---------|---------|----------|---------|-----------|-----------|
| MWSI005 | Transmission main parallel to and adjacent to Central Calif. Traction Co. RR tracks. consisting of approx. 6,600 if of 10-inch water line between Pine and Kettleman. (oversized main) | \$51,000 | \$51,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$51,000 |
| MWSX012 | Transmission Main (MSWi005) also includes construction of the main under the Central Calif. Traction Co. RR Tracks. (cost sharing) | \$50,000 | \$20,000 | \$0 | - \$0 | so | so | SO | \$0 | so | \$20,000 |
| MWSIOOS | Industrial Way transmiston main consisting of 900 ft 10-inch water main to the west of Cluff Avenue, (oversized main already constructed) | \$7,000 | \$7,000 | \$7,000 | \$0 | so | so | \$9 | \$0 | SO | so |
| MWSI007 | Industrial Way transmission main consisting of 1,180 if 10—inch water main to the east of Cluff Avenue extending MWS1006. (oversized main) | \$9,000 | \$9,000 | \$0 | \$0 | so | \$9,000 | so | \$0 | \$0 | \$0 |
| MWS1008 | Beckman Road transmission main consisting of 1,300 if 10-inch water main to the north of Kettlemann Lane, (oversized main) | \$10,000 | \$10,000 | \$0 | \$10,000 | \$0 | so | so | \$0 | so | so |
| MWSI009 | Chuff Avenue transmission main consisting of 2,600 if 10-inch water main along future street between Kettleman and Vine. (oversized main) | \$20,000 | \$20,000 | \$0 | \$0 | so | so | \$20,000 | so | so | \$0 |

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TABLE 3 - 1
DEVELOPMENT RELATED CAPITAL COSTS AND PHASING
WATER

21-Aug-91

| Project Number | Dr cription | Program Cost | impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1998/97 | 1997-2002 | 2002-200 |
|-------------------|--|-----------------|--------------------|-------------|---------|---------|---------|----------|---------|-----------|----------|
| MWSi010 | Kettleman Lane transmission main consisting of 3,680 if 12-inch water main easterly from Beckman Road. (oversize main) | \$57,000 | \$57,000 | \$0 | \$0 | \$0 | \$0 | \$17,000 | to | to | \$40,000 |
| MWSI011 | Turner Rond transmission main consisting of 2,600 if 10-Inch water main from Lower Sacramento Road. (oversized main) | \$20,000 | \$20,000 | \$9,714 | \$3,007 | \$3,065 | \$3,130 | \$1.084 | to | \$0 | t |
| MWSI012 | Applewood Drive transmission main consisting of 1,300 if 10-inch water main consisting of 4,300 if 10-inch water main southerly from Turner Road to the existing main, (oversize main) | \$10,000 | \$10,000 | \$4,857 | \$1,503 | \$1,532 | \$1,565 | \$542 | to | to | to |
| MWSi013 | Lower Sacramento Road transmission main consisting of 550 If 10-inch water main northerly from Yosemite Avenue, (oversize main) | \$4,000 | \$4,000 | \$4,000 | \$0 | to | to | to | to | to | to |
| | Applewood Drive transmission main consisting of 13,480 if 10-inch water main southerly from existing Applewood to Harney Lane, (oversized main) | \$105,000 | \$105,000 | \$ 0 | \$7,000 | to | to | \$0 | \$0 | to | \$98,000 |
| | Applewood Drive transmission main MWSi014 also includes construction of a 10-inch water line under the | \$9,600 | \$9,000 | \$0 | \$10 | to | \$0 | to | \$0 | \$9,000 | to |

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TABLE 3 - 1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING WATER

21-Aug-91

| Project Number | Description | Program Cost | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/98 | 1996/97 | 1997-2002 | 2002-2007 |
|-------------------|---|-----------------|--------------------|----------|---------|---------|---------|---------|---------|-----------|------------|
| MWSX002 | Applewood Drive transmission main (MWSi014) also includes construction of a 10-inch water line across Kottleman Lane (cost sharing) | \$9,500 | \$9,500 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$9,500 | \$0 |
| MWSI015 | Evergreen Drive transmission main consisting of 3,260 if 10-inch water southerly and easterly from existing Evergreen Drive to Lower Sacramento (oversize main) | \$25,000 | \$25,000 | \$12,143 | \$3,759 | \$3,831 | \$3,912 | \$1,355 | \$0 | \$0 | \$0 |
| MWSX009 | Evergreen Drive main (MWSI015) Includes construction of the main under Lower Sacramento Road (cost sharing) | \$9,500 | \$9,500 | so | to | \$9,500 | to | to | \$0 | so | \$0 |
| MWSt016 | Lodi Avenue transmission main consisting of 2,600 If 10-inch water main westerly from Lower Sacramonto Road to General Plan Boundary, (oversized main) | \$20,000 | \$20,000 | \$0 | so | \$0 | so | so | to | \$3,266 | \$16,724 |
| MWSI017 | Vine Street transmission main consisting of 2,250 If 10-inch water main westerly of Lower Secramento Road along a future street alignment. (oversized main) | \$18,000 | \$18,000 | \$0 | \$0 | so | so | so | so | \$18,000 | so |
| MWSi018 | Kettleman Lane transmission main consisting of 4,350 lf 10-inch water main from 1/2 mi. west of Lower Sacramento Roadto Sylvan Way. (oversized main) | \$34,000 | \$34,000 | \$12,000 | \$0 | so | so | \$0 | SO | \$22,000 | SO |

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TABLE 3 - 1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING WATER

21-Aug-91

| Project Number | Description | Program Cost | impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/98 | 1996/97 | 1997-2002 | 2002-2007 |
|-------------------|--|-----------------|--------------------|---------|---------|---------|---------|----------|---------|-----------|-----------|
| MWSI018 | Lower Sacramento Road transmission main consisting of 5,200 if 10-inch water main northerly to Kettleman Lane to the W.I.D. Ganal. (oversized main) | \$41,000 | \$41,000 | \$0 | so | \$0 | to | \$21,000 | so | \$3,266 | \$16,734 |
| MWSX003 | Kettleman/Lower Sacramento Road transmission mains (MWSi018 and MWSi019) also includes boring under the two existing roads. (cost sharing) | \$13,000 | \$13,000 | \$0 | so | \$0 | so | to | to | \$13,000 | to |
| MWSI020 | Mills Avenue transmission main consisting of 1,400 tf 10-inch water main northerly from Kettleman Lane to W.I.D. Canal (oversized main) | \$11,000 | \$11,000 | to | so | to | to | to | so | \$11,000 | \$0 |
| | Milts Avenuse transmission main (MWSi020) also includes construction of the main under the W.I.D. Canal. (cost sharing) | \$9,000 | \$9,000 | to | so | to | \$0 | to | \$0 | \$9,000 | \$0 |
| | Milis Avenue transmission main (MWSI020) also includes construction of the main under Ketteman Lane (cost sharing) | \$9,500 | \$9,500 | \$0 | \$0 | to | so | to | \$0 | \$9,500 | \$0 |
| MWSI021 | Century Blvd transmission main consisting of 1,300 lf 10-Inch water main westerly from Sage Way along future Century Blvd. alignment to join the existing main, (oversized main) | \$5,000 | \$5,000 | to | so | so | so | \$5,000 | \$0 | SO | to |

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TABLE 3 - 1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING WATER

21-Aug-91

| Project | Description | Program | Impact | | | | | | | | |
|---------|---|----------|----------|---------|---------|---------|---------|---------|----------|-----------|-----------|
| Number | | Cost | Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2007 |
| | Century Blvd. transmission main consisting of 2,760 lf 10-inch water main along future alignment from Lower Secramento Road to general plan boundary. (oversized main) | \$22,000 | \$22,000 | to | to | to | to | to | to | \$3,592 | \$18,408 |
| | Cestury Blvd. transmission main (MWSl021) and MWSl022) also includes construction of the main under Lower Sacramento Road. (cost sharing) | \$9,500 | \$9,500 | to | \$0 | to | to | to | to | \$3 | \$9,500 |
| MWS1023 | Future transmission main consisting of 2,800 if 10-inch aligned between and parallel to Century and Harney, thence southerly from the Janal to Harney, (oversize main) | \$51,000 | \$51,000 | to | \$0 | \$0 | to | to | \$10,000 | \$41,000 | \$0 |
| | Harney Lane transmission main consisting of 7,900 lf 10-inch water main westerly from Ham Lane to the western boundary of the general plan area. (overstzed main) | \$33,000 | \$33,000 | to | \$0 | \$0 | \$0 | to | \$0 | \$21,000 | \$12,000 |
| | Harney Lane transmission (MWSX024) includes construction of a 10-inch water line under the W.I.D. Canal. (cost sharing) | \$9,000 | \$9,000 | \$0 | to | to | \$0 | to | to | \$9,000 | \$0 |
| | Harney Lane transmission main (MWSi024) includes construction of the main under Lower Sacramento Road. (cost sharing) | \$9,500 | \$9,500 | \$0 | \$0 | to | \$0 | \$0 | \$0 | to | \$9,500 |

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TABLE 3 - 1 DNELOPMENTRELATED CAPTIFAL COSTS AND PHASING WATER

21-Aug-91

| Project | Description | Program | Impact | | | | | | | | |
|---------|--|-----------|-----------|----------|----------|----------|------------|------------|-------------|-----------|----------|
| Number | | Cost | Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-200 |
| MWS1025 | Century Stvd. transmission main consisting of 1,080 if 10-inch water main easterly from Stockton St. to Chickadee Lane. (oversized main) | \$8,000 | \$8,000 | \$3,886 | \$1,203 | \$1,225 | \$1,252 | \$434 | \$ 0 | \$0 | |
| | Cherokee/Fiamey transmission main consisting of 4,700 lf 10-inch water main easterly from SP railroad along Harney, thence, Northerly along Cherokee to Century Bivd. (oversized | \$73,000 | \$73,000 | \$35,458 | \$10,975 | \$11,186 | \$11,424 | \$3,957 | \$0 | \$0 | S |
| | mais) | | | | | | | | | | |
| SUBTOT | AL - WATER MAIN: | \$853,500 | \$853,500 | \$94,559 | \$37,447 | \$30,339 | \$30,283 | \$75,873 | \$10,000 | \$242,206 | \$332,79 |
| WATER W | | | | \$0 | \$0 | so | \$0 | \$0 | \$723,000 | \$0 | |
| | Installation of Water Well "A" with pumping capacity of 1,600 GPM and a Granular Activated Carbon Filter. | \$723,000 | \$723,000 | • | \$0 | • | • | | \$723,000 | • | |
| | Installation of Water Well *B* with pumping capacity of 1,600 GPM and a Granular Activated Carbon Filter. | \$723,000 | \$723,000 | \$0 | \$0 | W | \$0 | \$ô | \$0 | \$0 | \$723,00 |
| | Installation of Water Well "C" with pumping capacity of 1,600 GPM, a Granular Activated Carbon Filter, and Standby Power. | \$773,000 | \$773,000 | so | so | so | w | \$0 | \$0 | \$0 | \$773,00 |

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| Project | Description | Program Cost | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2007 |
|--------------------------------|---|-----------------|--------------------|-----------|-----------|-----------|-----------|-----------|---------|------------|-----------|
| Number | | | | \$0 | | | \$0 | \$0 | \$0 | \$723,000 | \$0 |
| 2+WW1004 | Installation of Water Well "D" | \$723,000 | \$723,000 | \$0 | SO | SO | • | • | | *** | _ |
| | with pumping capacity of 1,800 | | | | | | | | | | |
| | GPM and a Granular Activated | | | | | | | | | | |
| | Carbon Filter. | | | | | | | | | | |
| | | \$723,000 | \$723,000 | so | to | SO | SO | SO | SO | \$723,000 | SO |
| MWW1005 | Installation of Water Well "E" | \$723,000 | 9,20,000 | 20 | | | | | | · · | |
| | with pumping capacity of 1,600 | | | | | | | | | | |
| | GPM and a Granular Activated Carbon Filter. | | | | | | | | | | |
| | Carbon Filler. | | | | | | | | | | |
| 1 HADADAAA | Installation of Water Well "F" | \$345,000 | \$345,000 | SO | \$0 | to | SO | SO | SO | \$345,000 | \$0 |
| MITTIOUC | with pumping capacity of 1,600 | 40,0,000 | • | | | | | | | | |
| | GPM and Standby Power. | | | | | | | | | | |
| | | | | | | | | | | | |
| MWWJOOZ | Installation of Water Well "G" | \$295,000 | \$295,000 | \$295,000 | SO | SO | SO | SO | SO | SO | to |
| | with pumping capacity of 1,600 | | | | | | | | | | |
| | GPM. | | | | | | | | | | |
| | | | | | | | | | | | 70 |
| MWWIOOE | Installation of Water Well "H" | \$345,000 | \$345,000 | SO | \$345,000 | SO | SO | SO | \$0 | \$0 | SO |
| rhouwerte. Gegeleher betroe | with pumping capacity of 1,600 | | | | | | | | | | |
| | GPM and Standby Power. | | | | | | | | | | |
| | | | | | | | \$345,000 | •• | 70 | so | SO |
| MWWIOOS | Installation of Water Well "!" | \$345,000 | \$345,000 | SO | SO | to | \$345,000 | \$0 | SO | 80 | 20 |
| | with pumping capacity of 1,600 | | | | | | | | | | |
| | GPM and Standby Power. | | | | | | | | | | |
| | 문화화학학 등학생이 함께 가는 그 그 | | | | 70 | \$295,000 | SO | so | so | to | so |
| MWWIOTO | Installation of Water Well "J" | \$295,000 | \$295,000 | SO | SO | \$290,000 | 50 | 20 | 80 | LO | |
| | with pumping capacity of 1,600 | | | | | | | | | | |
| | GPM. | | | | | | | | | | |
| | 14.80 a.s. | | *0.4E 000 | so | SO | \$0 | SO | \$345,000 | so | SO | \$0 |
| MWW1011 | Installation of Water Well "K" | \$345,000 | \$345,000 | 80 | a)O | 40 | 20 | 1030,000 | 50 | 50 | |
| g sit intital | with pumping capacity of 1,600 | | | | | | | | | | |

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GPM.

21-Aug-91

| Number | Description | Program Cost | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-200 |
|--------------------------|--|---|---------------------------------------|-----------|-----------|-----------|--------------|------------|-----------|---------------|----------|
| MWWi012 I | nstaliction of Water Well "L" | \$723,000 | \$723,000 | \$0 | \$0 | \$0 | 30 | \$0 | \$0 | \$723,000 | \$ |
| | with pumping capacity of 1,600 | | | | | | | | | \$120,000 | |
| | GPM and a Granular Activated | | | | | | | | | | |
| (| Carbon Filter. | | | | | | | | | | |
| I MANAGO I | nstallation of Water Well "M" | | | | | | | | | | |
| The second second second | with pumping capacity of 1,600 | \$773,000 | \$773,000 | \$0 | SO | SO | SO | SO | SO | so | \$773,00 |
| | SPM, a Granular Activated Carbon | | | | | | | | | | |
| | Filter, and Standby Power. | | | | | | | | | | |
| | The state of the s | | | | | | | | | | |
| MWWI014 H | nstallation of Water Well "N" | \$295,000 | \$295,000 | \$0 | so | SO | SO | sx. | SO | | **** |
| | with pumping capacity of 1,600 | V,000 | 4100,000 | | 50 | 50 | 50 | * | 80 | to | \$295,00 |
| | BPM. | | | | | | | | | | |
| INVCOMA I | | | | | | | | | | | |
| MW50001 V | Vater Master Plan-1990 | \$57,380 | \$57,369 | \$57,369 | \$0 | \$0 | \$0 | \$0 | so | so | 5 |
| | | | | | | | | • | | 50 | • |
| | Vater Master Plan | \$20,000 | \$20,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$20,000 | \$0 | ٤ |
| 4 | ind C.I.P. Update-1997 | | • | | | | | | | - | - |
| MWSOma V | Vater Mester Plan | **** | *** | | | | | | | | |
| | nd C.I.P. Update-2002 | \$20,000 | \$20,000 | \$0 | \$0 | \$0 | \$0 | \$0 | SO | \$20,000 | S |
| | | 12 to 12 to 12 to | | | | | | | | | |
| MWS0004 P | ublic Works Admin. Bidg, Exp. (50%) | \$341,500 | \$341,500 | \$0 | \$341,500 | \$0 | \$0 | \$0 | so | | |
| | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 4571,555 | | 4511,000 | | 30 | \$0 | 50 | SO | S |
| MWS0005 P | ublic Works Storage Facility (50%) | \$235,000 | \$235,000 | \$0 | 20 | \$235,000 | \$0 | \$0 | so | \$0 | \$ |
| | 중에 되고 있는 아이를 하시다. | | | | | | • | ** | 50 | 40 | • |
| MWSO006 P | ublic Works Garage/Wash Facil.(33% | \$166,667 | \$166,667 | \$166,867 | \$0 | \$0 | \$0 | \$0 | so | \$0 | t |
| | (2) 등 하실 등에 속하게 되었다. | | | | | | | | | ** | · |
| U | pgrades to Existing Facilities | \$1,628,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$6 | SO | t |
| | | | | | | | | | | | |
| | ew Development Share of Existing later Tank (31%) | | | | | | | | | | |
| | ater Talik (3178) | \$183,489 | \$183,489 | \$11,468 | \$11,468 | \$11,468 | \$11,468 | \$11,468 | \$11,468 | \$57,340 | \$57,34 |
| Line Symptom | | | · · · · · · · · · · · · · · · · · · · | | | | | | S | Sand of Miles | |
| TOTAL W | ATED COST | \$10 001 FOF | CO 200 FOF | | | | | | | | |
| TOTAL W | ATER COST | \$10,931,525 | \$9,303,525 | \$625,063 | \$735,415 | 571.807 | \$386.751 is | 432 341 \$ | 764 468 S | 2 3 3 5 A G | 2 054 |

PAGE 9 OF 9

GP STUDY AREA. MWWI 004/ MWSI 018 MWWI 003 MWWI 005 MWSX 008 LEGEND Future Weil
Future Pipe
MWWI 005 Water System
Improvement
Project Number NOTE FIGURE 3-1 WATER SYSTEM IMPROVEMENTS

The state of the second of the

developer credits should actual development costs deviate from the program schedule.

In Table 3-1, two columns are shown, Program Cost and Impact Fee Fund. Program Cost is defined as project costs to be provided through the City Water Fund. The Program Costs do not include costs borne by the developer. Costs listed in the Impact Fee Fund column represent those costs for specific projects allocated to future developed identified in the General Plan. Where the cost in the Program Cost and Impact Fee Fund columns are the same, the entire project cost has been allocated to future development. The usefulness of differentiating the costs will be evident in latter sections when Program Costs are to be funded by other sources or include costs to correct existing deficiencies.

At the end of Table 3-1, an item is listed as "New Development Share of Existing Facilities". This item summarizes already incurred City costs to construct projects with capacity reserved to serve future development. Depending on the project, a percentage of the actual construction cost has been allocated to future development as shown in parenthesis.

In the case of water service, the new water tank falls into the category of existing facilities serving future development. As indicated in Table 3-1, 31 percent of the actual construction cost adjusted to January 1990 dollars has been allocated.

Supply

Through buildout of the General Plan, the City will continue to rely upon groundwater as the sole water supply. Project average day demand at buildout is **22.1** million gallons per day. A total of **14** new wells will be required to supply to water to the General Plan area. Proposed locations of the new wells marked on Figure **3-1**. Five of the new wells will be equipped with standby power generators.

Distribution System

Additional water mains will be required to distribute water to the area. With regard to funding water main extensions, the City is responsible only for water mains 10 inches and larger in diameter. Approximate location and limits of these water mains are shown on Figure 3-1. Actual location and alignment of the water mains may slightly change when site specific planning is completed.

Treatment

Two types of treatment are assumed to be provided at the wells sites: emergency chlorination and granular activated carbon filtration. Chlorination of the water is not routinely required, however, permanent chlorination facilities will be constructed at selected wel7 sites. The cost of

chlorination facilities (approximately 57,500 per well) is small compared to the cost of a well and is not listed separately. The totals for all wells include sufficient contingency to cover this expense at selected wells. It is assumed, granular activated carbon filtration units will be cunstructed at 5 of the 15 new wells.

ESTIMATED COSTS AND PHASING

In Table 3-1, a summa) y of the water projects and estimated costs is presented. Estimated costs are referenced to the Engineering News Record 20 Cities Construction Cost Index for January 1, 1990 of 4,673. Water main extension costs represent only the City's funding responsibility per the City Reimbursement Pclicy. In actual fact, the developer will be constructing the improvement and will receive back from the City a portion to cover the cost of oversizing the pipelines and the City's share (50%) of major crossings.

Phasing of the improvements is presented in Table 3-1 and is based upon the Forecast of Units Constructed Over the General Plan Period (Appendix A) provided by the City. In Table 3-1, the phasing is divided by year for the first 6 years followed by two 5-year increments. Costs for projects serving General Plan development funded on or before July 1, 1991 are shown in the current year (1991/92). Actual costs of these projects have been adjusted to the January 1, 1990 dollars.

Many of the projects listed in Table 3-1 are oversizing projects wherein the City's participation is limited to reimbursement to the developer for oversizing costs. It is not intended that the Program Cost shown in the table reflect the total cost of construction. Similarly, for projects such as the Public Works building expansion, the costs have been divided between the water and sewer impact fee funds and the costs shown are the portion allocated to the water impact fee fund. Also, where a project partially serves the existing community and partially the general plan expansion areas, only the cost allocated to the general plan areas are shown.

DEVELOPMENT IMPACT FEE

Relationship of Water Projects to New Development

A reasonable relationship must be established between (1) a fee's use and (2) the type of development on which the fee is imposed. To establish such a relationship, it must be shown that the type of development that is going to be charged the fee actually uses, is served by, or benefits from the public facilities that are to be financed by the fee revenue.

Because of the logical growth patterns conceived in the Proposed General Plan and because of the planning effort set down in the Water Master Plan, the City ensures that all water facility improvements will primarily benefit the residential, commercial, industrial and quasi-public land uses within the General Plan area. Each and every water project to be financed by the fee

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program will provide the same level of service to the Proposed General Plan area as currently provided to the existing community of Lodi. Although other projects have been identified that will correct existing deficiencies, these project costs will not be included in the fee program.

Relationship of Water Projects to Land Uses

On the basis that all land **uses** will benefit from the facilities to be constructed, the burden of financing will be distributed to each land use in proportion to their use of, or benefit from, the improvements.

This **is** accomplished through the use of a Residential Acre Equivalent (RAE) schedule. A RAE schedule indicates the relative responsibility to pay for improvements for each land use category in relation to the single family detached residential category. A summary of the RAE factors for water **is** presented in Table 3-2. The **RAE** schedule shows a reasonable relationship between the cost of the required water projects and financing burden placed on each land use.

Recommended Fees

A summary of water fees for each land use benefitting from the water projects is provided in Table 3-2. The total fee for low density residential use is 55,504 per acre.

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TABLE 3–2 21-Aug-91
SUMMARY OF DEVELOPMENT IMPACT FEES
WATER

| Lat d Use Categories | Unit | RAE | Fee |
|--|------|------|--------------------------|
| RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$5,710 |
| Medium Density | Acre | 1.96 | \$11,190 |
| High Density | Acre | 3.49 | \$19,930 |
| East Side Residential | Acre | 1.00 | \$5,710 |
| PLANNED RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$5 710 |
| Medium Density | Acre | 1.96 | \$11,190 |
| High Density | Acre | 3.49 | \$19,930 |
| COMMERCIAL | | | _ |
| Neighborhood Commercial | Acre | 0.64 | \$3,650 |
| General Commercial | Acre | 0.64 | \$3,650 |
| Downtown Commercial | Acre | 0.64 | #0.050 |
| Office Commercial | Acre | 0.64 | \$3,650 \$3,650 |
| INDUSTRIAL | | | |
| Light Industrial | Acre | 0.26 | ¢1 400 |
| Heavy Industrial | Acre | 0.26 | \$ 1;4 8 8 |
| and the second of the second o | | | |

Note: Fee amounts shown are for fiscal year 199111992

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Sources: Noite & Associates and Angus McDonald 8 Associates.

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CHAPTER 4

SEWER SERVICE

OVERVIEW

The City of Lodi has provided sowerage services to its residents since the early 1920's. Major facilities owned and operated by the City include a citywide collection system, sewer trunks to the treatment plant, and the White Slough Water Pollution Control Facility located approximately 6 miles southwest of the City.

Collection System

The sanitary sewer collection system within the City includes more than 155 miles of pipeline. Sizes of the main sewers range from 4 to 48 inches in diameter, with 6 inches being the most common. Domestic and limited industrial wastewater flows (mainly the PCP Cannery and other industries along Sacramento Street) are kept separate. The separate industrial system is not addressed in this study.

Five sewer lift stations provide sewerage service to outlying areas of the City where conditions prohibit gravity systems. These existing lift stations are: Cluff Avenue Station, Mokelumne Village, Rivergate, Woodlake, and Park West.

Treatment and Disposal

White Slough Water Pollution Control Facility is owned and operated by the City. Currently, the plant is operating at the design capacity of 6.2 million gallons per day (MGD). Expansion of the plant to a capacity of 8.5 MGD is currently under construction. Future expansion to 10.3 MGD is planned.

Facility costs and financing for wastewater treatment and disposal are not addressed in this report. These issues have been addressed in separate studies and a financing mechanism, the Wastewater Connection Fee, has been established.

Master Sewerage Plan

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Planning for sewerage collection facilities to serve the expanded General Plan area are addressed in the report by Black and Veatch, "Sanitary Sewer System, Technical Report for the 1990 General Plan Update." Included in the report are results of a comprehensive hydraulic evaluation of the existing collection system and proposed expansions of the collection system to serve an expanded City.

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The Master Plan presents resommendations for gravity and pressure sewer design, sewer lift station design, and collection system maintenance. Recommendations for sizing and location of new facilities are presented that will serve the General Plan expansion areas as discussed in the section "Planned Sewerage Facilities". In addition, Master Plan identifies a number of collection system deficiencies that are described in the subsection, "Existing Deficiensies".

Sewer Reimbursement Policy

Commonly, developers are required to construct sewer trunk lines with greater capacity than needed in order $t\,o$ provide service $t\,o$ expanding areas of a community. It is not very common that a City or agency is able to get property owners to pay in advance for sewer capacity that they do not plan to use in the near future and, as a result, cities and agencies pay for the oversizing of sewer trunks. Policies for reimbursing for oversizing costs vary from community to community.

Under the City's Sewer Trunk Extension policy, applicants are reimbursed a portion of the estimated construction cost of oversize trunk sewers. For oversize trunks, the reimbursement policy applies to trunk sewers larger than 10 inches in diameter. For the purposes of this report, reimbursable construction costs are assumed to include materials, construction, administration, engineering and inspection. Administrative and engineering reimbursement is 1imited by City ordinance to 10%.

City reimbursement policy as it relates to oversizing of sewer trunk lines $i\,s$ reasonable. Historically, the oversize cost of gravity sewer lines has been spread throughout the City. In preparing this report, the existing policy and historic practice are assumed to continue in force during the General Plan period.

Existing Deficiencies

A number of existing sewers within the City are operating above design capacity as determined by the methods presented in the Master Sewerage Plan. Correction of the problem requires the construction of parallel sewers to relieve the surcharge condition. Listing of these sewers is presented in the Master Plan. Maintenance deficiencies within the collection system were also identified consisting primarily of sewer cleaning that had not regularly been performed in the past.

Based upon construction costs referenced to January 1, 1990 dollars, the estimated cost to construct those parallel relief sewers is \$1,005,500. Estimated cost to clean the existing sewers is \$165,000. Source of funding for these deficiencies has been identified by the City to be the Sewer Fund.

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PLANNED SEWERAGE FACILITIES

Sewerage collection facilities to serve the expanded City have been identified in the Master Sewer Plan. A summary of these facilities is presented below and in Table 4-1. Project numbers listed in Table 4-1 are used to identify the project locations as shown on Figure 4-1.

Collection System

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Expansion of the existing collection system to serve new areas will require construction of new gravity sewers and lift stations as described in Table 4-1 and shown on Figure 4-1. Two new lift stations and expansion of an existing lift station are planned; one near Kettleman Lane (Highway 12), a second near Harney Lane, and expansion of the existing Cluff Avenue Lift Station. Additional gravity sewer trunks will be required to serve the General Plan areas. Only those trunk lines that are larger than 10 inches in diameter are considered in this report and are listed in Table 4-1.

Sewer collection facilities can be divided into two categories: gravity facilities and pressure facilities. As previously mentioned, City policy has historically provided for reimbursement of oversize gravity facilities and for payment of oversizing costs from the Sewer Fund, thereby, spreading the costs City-wide. Pressure facilities costs (i.e. lift stations and force mains) have been spread over areas of benefit. For each lift station in the City a specific area of benefit is defined. In this report, it is assumed that lift station and force main costs would be spread over individual special fee areas corresponding to the areas of benefit. Also, it is assumed that gravity facilities costs would be spread City-wide and oversizing costs for facilities serving future growth would be paid from development impact fee funds.

Treatment and Disposal

Expansion of the White Slough Water Pollution Control Facility is currently under construction. Costs of the expansion and future planned expansions are not considered in this report. Funding for these improvements has been arranged by the City and reimbursement will come from rates and the City Wastewater Connection Fees collected at the time of building permit issuance.

ESTIMATEO COSTS AND PHASING

In Table 4-1, a summary of the sewer projects and estimated costs is presented. Estimated costs are referenced to the Engineering News Record 20 Cities Construction Cost Index for January 1, 1990 of 4673. Sewer trunk extension costs reflect only the City's funding responsibility per the City Reimbursement Policy and do not reflect the total estimated construction cost.

Phasing of the improvements is based upon the Forecast of Acres Mapped Over the General Plan Period (Appendix A) provided by the City. In Table 4-1,

TABLE 4 = 1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING SEWER

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| | | | | SEVVER | | | | | | | |
|-------------------|---|-----------------|----------------------|---------|---------|---------|---------|---------|------------|-----------|------------|
| Project Number | Description | Program Cost | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/98 | 1996/97 | 1997-2002 | 2002-2007 |
| MSSI001 | Beckman Road sewer trunk comprising 1,100 lf of 10-inch sanitary sewer pipe and manholes from Pine Street to Lodi Avenue. | \$49,000 | \$49,000 | w | w | SO | so | \$0 | so | \$0 | \$49,000 |
| MSSto2 | Western boundary sewer trunk consisting of 500 If. 12-Inch, 500 If 15-Inch, 2,000 If of 18-Inch, 2,000 If of 21-Inch, and 2,500 If of 24-Inch sewer pipe connectingto the existing 48 inch sewer frunk to the treatment plant. (oversize) | \$300,000 | \$300,000 | \$0 | \$0 | so | W | so | \$0 | \$0 | \$300,000 |
| MSSI003 | Oversize gravity sewer to Harney Lane lift station comprising 2,700 If of 12-inch and 1,000 If of 15- inch sewer trunk. | \$48,000 | \$48,000 | so | to | W | w | to | • w | \$48,000 | \$0 |
| MSSi004 | Harney Lane lift station and force main comprising 3-ten horsepower pumps having a combined 1,000 GPM capacity and 2,600 If of 8-inch pipe. | \$262,500 | \$0 (1) | \$0 | SO | SO | \$0 | \$0 | w | so | so |
| MSSI005 | Kettleman Lane lift station and force main with 2-five horsepower pumpe and 450 GPM capacity and short force main under Kettleman Lane: | \$192,000 | \$ 0 <i>6</i> | so | w | so | so | w | w | \$0 | SO |
| MSSI006 | Cluff Avenue lift station upgrade and parallel force main with 2 lifteen horsepower pumps and a 1,500 GPM capacity | | \$0 (3) | so | w | SO | \$0 | W | w | so | \$0 |
| MSS1007 | 1,400 if of 18-inch parallel | \$42,000 | \$42,000 | \$0 | \$0 | W | \$0 | W | \$0 | \$42,000 | \$0 |

from Taylor Rd. to Kettleman Lane.

PAGE 1 OF 2

TABLE 4 - 1DEVELOPMENT RELATED CAPITAL COSTS AND PHASING

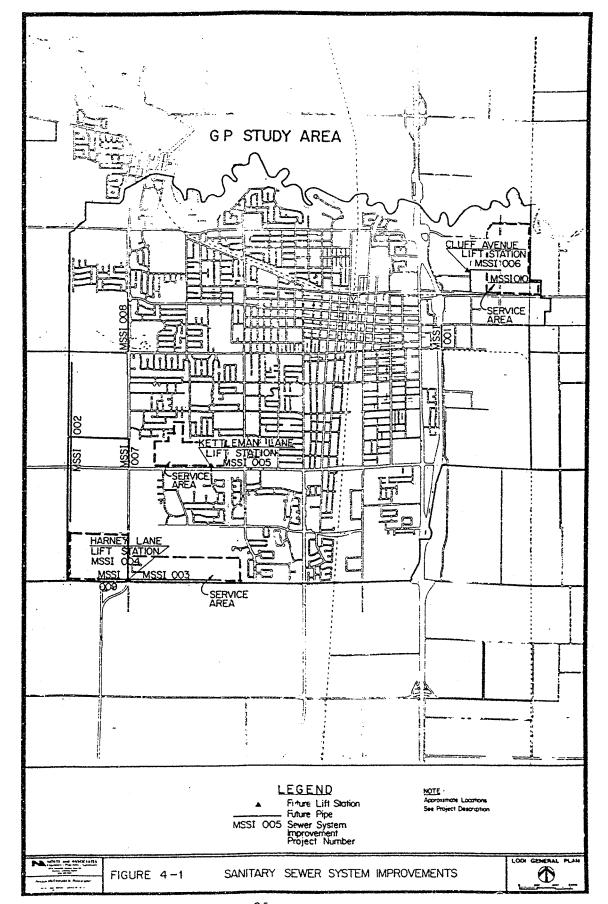
21-Aug-91

| Project Number | Description | Program Cost | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/98 | 1996/97 | 1997-2002 | 2002-2007 |
|-------------------|---|-----------------|--------------------|-----------|-----------|-----------|---------|----------|------------|-----------|------------|
| MSSIOO8 | 2,500 if of 15-inch parallel trunkline in Lower Sacramento Rd. from Lodf Avenue to Elm Street. | \$49,000 | \$49,000 | SO | so | so | so | \$49,000 | so | \$O | so |
| MSSI009 | Oversize gravity sewer in Harney Lane to lift station, consisting of 1,400 if of 12-inch pipe west from Lower Sacramento Road. (oversize) | \$15,000 | \$15,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$15,000 | \$0 |
| SUBTO | FAL - SEWER MAIN PARTICIPATION: | \$1,142,500 | \$503,000 | SO | SO | SO | SO | \$49,000 | \$0 | \$105,000 | \$349,000 |
| GCF1006 | Public *** 's Administration Bidg (expansion, (50%) | \$341,500 | \$341,500 | SO | \$341,500 | s | o s o | so | SO | so | so |
| GCF1007 | Public Works Storage Facility (50%) | \$235,000 | \$235,000 | SO | \$0 | \$235,000 | SO | SO | \$0 | so | SO |
| GCFl008 | Pub. Works Garage/Wash Facil. (33%) | \$166,667 | \$168,687 | \$168,667 | SO | s | 0 s 0 | SO | SO. | so | so |
| MSS000 | Sewer Master Plan = 1990 | \$82,753 | \$82,753 | \$82,753 | SO | \$0 | \$0 | so | SO | SO. | SO |
| MSSO00 | Sewer Master Plan and C.I.P. Update = 1997 | \$20,000 | \$20,000 | \$0 | so | S | o s o | so | \$20,000 | o | SO |
| MSSC00 | Sewer Master Plan and C.I.P. Update ~ 2002 | \$20,000 | \$20,000 | so | SO. | \$0 | \$0 | \$0 | \$0 | \$20,000 | \$0 |
| | Upgrades to Existing Facilities | \$1,005,500 | so | so | so | s | o s o | SO | SO | \$0 | so . |
| TOTAL | | \$3,013,920 | \$1,368,920 | \$249,420 | 341,500 | \$235,000 | \$0 | \$49,000 | \$20,000 | \$125,000 | \$349,000 |

Notes

- 1. Harney Lanelift station costs will be funded by a Supplemental Fee assessed upon development within the area of benefit. Therefore, costs of the projects are not shown in the City-Wide Impact Fee Fund column. Forecasted liming of the project construction is in the 1997-2002 period.
- 2 Kettleman Lane lift station costs will be funded by a Supplemental Fee assessed upon development within the area of benefit. Therefore, costs of the projects are not shown in the City-Wide Impact Fee Fundcolumn. Forecasted liming of the project construction is in the 1992-1993 period.
- 3 Cluff Avenue lift station modification costs will be funded by a Supplemental Fee assessed upon development within the area of benefit. Therefore, costs of the projects are not shown in the City-Wide impact Fee Fund column. Forecasted timing of the project construction is in the 2002-2007 period.

PAGE 2OF 2



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the phasing is divided by year for the first 6 years followed by two 5-year increments. Costs for the projects serving the General Plan development funded on or before July 1, 1990 are shown in the current year (1990/91). Actual costs of these projects have been adjusted to the January 1, 1990 dollar reference.

Some projects listed in Table 4-1 are not included in the overall development impact Fee program. These include projects related to serving the Cluff Avenue Lift Station Service Area, the Harney Lane Lift Station Service Area and the Kettleman Lane Lift Station Service Area. Since lift stations are unusually large and expensive facilities and, the service area is specific, a separate supplemental fee is calculated for each area. A separate calculation for these sub-zones is presented in the section, BURDEN ANALYSIS FOR SEWER SUB-ZONES.

Relationship of Sewer Projects to New Development

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A reasonable relationship must be established between: (1) the fee's **use** and; (2) the type of development on which tho fee is imposed. To establish such a relationship, it must be shown that the type of development that is going to be charged the fee actually uses, is served by, or benefits from the public facilities that are to be financed by the fee revenue.

Sewer collection facilities are used by residential, commercial, industrial and quasi-public land uses. Benefit to each land use $i\,s$ based upon peak wastewater generation rates as set forth in the Sewer Master Plan. Because each land use mentioned above benefits from the sewer projects in the capital improvements program, each land use is also a part of the fee program.

Relationship of Sewer Projects to Land Uses

Once the relationship between the facilities to be constructed and the land uses has been established, the burden of financing is to be distributed to each land use in proportion to its use of, or benefit from, the improvements. This is accomplished through the use of a Residential Acre Equivalent (RAE) schedule. A RAE schedule indicates the relative responsibility to pay for improvements for each land use category in relation to the single family detached residential category.

According to the definition of RAE's an acre of low density single family residential land sue has an RAE factor of 1.0. All other land use categories have RAE factors that relate their demand for sewerage facilities relative to one acre of low density single family land use. Based upon wastewater flow projections presented in the City's Sewer Master Plan for each land use in the General Plan, an RAE schedule has been developed. The RAE schedule shows a reasonable relationship between the cost of required Sewer Facilities projects ard the burden placed on each land use. The RAE schedule that has been developed for the Sewer Facilities is presented in Table 4-2.

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TABLE 4–2 21-Aug-91
SUMMARY OF DEVELOPMENT IMPACT FEES
SEWER

| [Land Use Categories | Unit | RAE | Fee |
|-------------------------|------|------|---------|
| DECIDENTIAL | | | |
| RESIDENTIAL | _ | | |
| Low Density | Acre | 1.00 | \$1,090 |
| Medium Density | Acre | 1.96 | \$2,140 |
| High Density | Acre | 3.49 | \$3,800 |
| East Side Residential | Acre | 1.00 | \$1,090 |
| PLANNED RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$1,090 |
| Medium Density | Acre | 1.96 | \$2,140 |
| High Density | Acre | 3.49 | \$3,800 |
| COMMERCIAL | | | |
| Neighborhood Commercial | Acre | 0.94 | \$1,020 |
| General Commercial | Acre | 0.94 | \$1,020 |
| Downtown Commercial | Acre | 0.94 | \$1,020 |
| Office Commercial | Acre | 0.94 | \$1,020 |
| INDUSTRIAL | | | |
| Light Industrial | Acre | 0.42 | \$460 |
| Heavy Industrial | Acre | 0.42 | \$460 |

Note: Fee amounts shown are for fiscal year 1991/1992.

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Sources: Noite 8 Associates and Angus McDonald 8 Associates.

Recommended Fees

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Establish ----

The Sewer Facilities Fees for each land use are summarized in Table 4-2. The total fee is \$1,090 per low density residential acre.

BURDEN ANALYSIS FOR SEWER SUB-ZONES

There are three sewer sub-zones which are not served by the improvements in the fee program and cannot be funded by the sewer development impact fee. These areas require 'lift stations and other improvements that will benefit only a specific area of undeveloped land. The sub-zones are the Kettleman Lift Station Area, Harney Lane Lift Station Area, and the Cluff Avenue Lift Station Area. Each area has only one land use type within its boundaries. Since the improvements will have to be constructed prior to any development taking place, development impact fees do not provide a viable means to finance these projects.

The total cost of lift station facilities equals 5639,500. In practice, this amount would best be obtained by borrowing from another City of Lodi fund. A special sub-area Impact Fee could then be collected in the three sewer subzones sufficient to repay the Sorrowing plus an appropriate rate of interest.

The alternative, three sub-area financing districts (Special Assessment Districts or Mello-Roos Community Facilities Districts) would not be economic. The cost of processing would be excessive compared to the funds required.

Other alternatives include financing by the "first" development in the area with establishment of ${\bf a}$ reimbursement program from future development, or the installation of temporary facilities plus payment of the fee. Each case should be evaluated separately as development ${\bf i}\,{\bf s}$ proposed.

A series of analyses presenting the burden of financing the improvements in each of these sub-zones is provided in Table 4-3. The calculations indicate the approximate amount each acre of land in each sub-zone will need to contribute in order to finance the needed improvements. It should be noted that the cost of financing has not been included.

In the case $\mathbf{o}\,\mathbf{f}$ the Harney Lane lift station service area, existing development has been included in the sizing of the facilities. At the time $\mathbf{o}\,\mathbf{f}$ annexation, it $\mathbf{i}\,\mathbf{s}$ expected that this area will $\mathbf{b}\mathbf{e}$ required to pay the supplemental fee and, therefore, it has been included in the supplemental fee calculation.

TABLE 4-3
SEWER SUB-ZONE FEE CALCULATIONS

Kettleman Lift Station Sub-Zone

Total Planned Residential Acres:

80

Total Planned Commercial Acres:

22

Total Cost of Improvements:

\$192,000

Cost Per RAE:

\$ 1,610

| <u>Description</u> | Units | Total <u>Developed</u> | RAE <u>Factor</u> | Total <u>RAEs</u> | Total Burden <u>Per Acre</u> |
|---|----------------|---------------------------|----------------------|----------------------|------------------------------------|
| PR - Low Density PR - Medium Density | Acres Acres | 69.9 4.5 | 1.00 1.96 | 69.9 8.8 | \$ 1,610 \$ 3,160 |
| PR - High Density | Acres | 5.6 | 3.49 | 19.5 | \$ 5,620 |
| Office Commercial | Acres | <u>.22.0.</u> 102.0 | 0.94 | <u>20.7</u> 116.4 | <u>\$</u> 1,510 |

Harney Lane Lift Station Sub-Zone

| Total Planned Residential Acres: | 292 |
|----------------------------------|-----|
| Less Basin and Park Acres: | 35 |

Net Planned Residential Acres: 257

Total Cost of Improvements: \$262,500

Average Cost Per RAE: \$ 830

| Description | <u>Units</u> | Total <u>Developed</u> | RAE <u>Factor</u> | Total <u>RAEs</u> | Burden <u>Per Acre</u> |
|--|-------------------------|--------------------------------|-------------------------------|---------------------------------------|--------------------------------|
| PR - Low Density PR - Medium Density PR - High Density | Acres Acres Acres | 225.0 14.1 18.0 257.0 | I .00 1.96 3.4 9 | 225.0 28.0 <u>63.0</u> 315.0 | \$ 830 \$ 1,630 \$ 2,900 |

Cluff Avenue Lift Station Sub-Zone

Total Industrial Reserve Acres:

158

Total Cost of Improvements:

\$185,000

Average Cost Per RAE:

\$ 1,170

| | eri Dtion Unit | Burden Per Acre | |
|---|--------------------|----------------------|--|
| Heavy Industrial Acres <u>-65.0</u> 0.42 <u>27.3</u> \$ 158.0 | nt Industrial Acre | \$ 1,170 \$ 1,170 | |

Note: Dollar amounts shown are for fiscal year 1991/92.

Source: Nolte and Associates and Angus McDonald and Associates, 1991.

CHAPTER 5

STORM DRAINAGE

OVERVIEW

Storm drainage services are provided by the City of Lodi. Major features of the storm drainage system include collection system, runoff storage/detention facilities, and pumping plants. Terminal drainage for the City is provided by the Mokelumne River and the Woodbridge Irrigation District (MID) canal. Characteristics of these facilities are described below.

Collection System

Storm drainage services are provided to an area encompassing approximately 7,700 acres. For facility planning purposes, the drainage area has been divided into planning areas. Storm drainage facilities for these planning areas are incorporated into a City wide storm drainage facilities plan. Approximately 1,340 acres directly discharge to the Mokelumne River via gravity pipelines. Approximately another 2,290 acres is pumped to the river. The remaining approximately 4,070 is pumped to the WID canal from two pump stations

Discharges to the WID canal are controlled by the flow capacity of the canal system. By agreement, the City is limited to a combined total discharge of 80 cubic feet per second at the two existing pumping stations. Additional discharge locations are not currently permitted by the agreement. The City operates a series of interconnected detention basins within this area to store runoff prior to pumping to the canal. The City utilizes detention basins in other areas also to store runoff prior to pumping to the Mokelumne River.

Existing facilities for the collection of storm runoff include surface improvements like alleys, ditches and gutters, and underground pipelines. Present design standards for storm drainage collection facilities only allow gutter and underground piping. The use of ditches and alleys for conveyance of storm runoff is currently substandard and not allowed.

New development in the City is required to construct all storm pipeline smaller than 30 inches in diameter. Pipelines 30 inches and larger are considered to be part of the Master Storm Drain Plan improvements and are currently funded by Storm Drainage Fees collected by the City.

A number of relatively minor deficiencies exist within the collection system. For the most part, these consist of substandard surface drainage facilities (for example, ditches and alleys), deteriorated curb and gutter, and undersized pipelines and catch basins. Many of the system deficiencies can be found in the older central and ezstern parts of the City.

large scale replacement of deficient facilities, if it occurs, will be part of major street reconstruction projects. As part of the East Side Residential Study (1987), a number of Storm Drainage deficiencies were identified. Estimated total cost to correct the deficiencies was \$854,000 in 19-27 dollars and \$930,000 in 1990 dollars. Small scale projects have been performed by the City to repair sections of curb and gutter. Replacement of the alley systems is not expected due to high cost and grade conditions.

Detention Basins

As mentioned above, the City operates a system of interconnected detention basins that store runoff prior to pumping to the WID canal or the Mokelumne River. These basins also function as park-like areas when not utilized for storage of storm runoff.

A total of eight basins exist within the City's drainage service area. Basins in subareas C (Pixley Park), B (Glaves Park), and E (Westgate Park) store runoff prior to discharge to the Mokelumne River. Basins in subareas A-l (Kofu Park), A-2 (Beckman Park), 8-l (Vinewood School), D (Salas Park), and G (along with the future F and I basins) store runoff prior to discharge to the WID canal from pumping stations located on Cabrillo Circle and at Beckman Park.

Current design standards for the detention basins require storage capacity for the 100-year 48-hour storm. Changes in hydrologic design data over the past years may have resulted in some earlier basins being undersized. Future updates of the Master Storm Drainage Plan will address this issue.

Master **Storm** Drainage Plan

City of Lodi Engineering Division updated the Master Storm Drainage Plan in 1988. This plan forms the principal basis for future expansions of the drainage service area to serve the General Plan area. Major collection system improvements and detention basin improvements are identified in the plan that have been included in this report.

Master Storm Drainage Fee

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The City has adopted a capital improvement program and fee-based financing mechanisms for storm drainage facilities. Recently, this program was revised to comply with AB 1600 regulations. This study updates the program and fee to serve the General Plan Area. Also, additional fee categories have been created from the former drainage fee to establish general conformance with the other fee categories,

PLANNED STORM DRAINAGE IMPROVEMENTS

Storm drainage improvements to serve cuildout of the Genera Plan were, for the most part, identified in the Master Storm Drainage Plan $\,$ A summary of

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those facilities is presented below and summarized in Table 5-1. Project numbers listed in Table 5-1 are used to identify the location of projects shown on Figure 5-1. Two existing reimbursement agreements, which are an obligation of the costs for storm drain fund, are included.

Collection System

Drainage subareas established during planning for storm drainage improvements within the existing City limits had already incorporated much of the land in the expanded General Plan area. Subareas C, 0, E, f and G were already planned for expansion of service to the west, east and south. New subarea I will be established to provide drainage services to areas west of Lower Sacramento Road, south of Kettleman Lane.

Major storm drainage trunk pipes are planned to serve the expanded General Plan area. locations of these trunk improvements are shown on Figure 5-1.

Detention Basins

Expansion of existing detention basins in subareas C, E, and G are identified in the Master Plan. New detention basins are planned for subareas F and I.

ESTIMATED COSTS AND PHASING

In Table 5-1, a summary of the stor... drainage projects and estimated construction costs is presented. Estimated costs are referenced to the Engineering News Record 20 Cities Average Construction Cost Index for January 1, 1990 of 4673. In the table, reference is made to Program Cost and Impact Fee Fund. Program Costs are defined for Storm Drainage Facilities to be the total probable construction cost for the facilities described. In other words, the private developer is not expected to pay any portion of the cost to construct Master Storm Drainage Facilities. Impact Fee Fund costs represent the portion of Program Costs allocated to serve future growth or otherwise not funded from other sources. In the case of Storm Drainage, all Master Planned Facilities are wholly serving future growth and no funding other than development impact fees is expected. Therefore, the amount in the Prograw Cost column generally equals the amount in the Impact Fee Fund column. The exception is the item labeled "Deficiencies". Storm drainage trunk lines represent the total estimated cost of construction.

Phasing of the storm drainage improvements presented in Table 5-1 and is based upon the Forecast of Units Constructed Over the General Plan Period (Appendix A) provided by the City. Costs for projects serving General Plan development funded on or before July 1, 1990 are shown in the current year (1990/91). Actual costs of these project have been adjusted to the base dollar of January 1, 1990.

TABLE 5 - 1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING STORM DRAINAGE

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21-Aug-91

| Project Number | Program Cost | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1998/97 | 1997-2002 | 2002-20 |
|---|-----------------|--------------------|----------|----------|-----------|----------|----------|-----------|-----------|---------|
| MSDI001 Phdey Park drainage basin. Expansion and development of Basin "C" according to plan adopted in 1988 (Dwg 88E003) | \$693,000 | \$693,000 | so | s177.000 | \$0 | so | \$0 | \$222,000 | \$294,000 | |
| MSDI003 Turner Road storm drain, 850 lf of 60", 800 lf of 54", and 1,150 lf of 42" storm drains in Turner Road and Guild Avenue. | \$213,000 | \$213,000 | SO | so | \$0 | SO | so | \$0 | so | \$213,0 |
| MSDI004 Pine Street storm drain consisting of 800 if of 30° storm drain and manholes. | \$42,000 | \$42,000 | so | so | SO SO | \$0 | to | \$0 | \$42,000 | |
| MSDI005 Thurman Street storm drain consisting of 1,250 if 38° storm drain and manholes. | \$70,000 | \$70,000 | \$30,000 | so | SO | SO | to | SO | \$40,000 | , |
| MSDN007 Basin "C" storm drain collection facilities consisting of 42" and 30" pipes, extending south and east. Expands service area to Kettleman and Guild. | \$172,000 | \$172,000 | SO | SO | so | \$0 | to | so | \$36,000 | \$86,0 |
| MSDixo8 Evergreen Drive storm drain collection facilities extending service area north to Turner Road, Improvements include pipes that will carry runoff to Basin "E". | \$129,000 | \$129,000 | \$0 | SO | SO | \$43,000 | \$43,000 | \$43,000 | \$0 | |
| MSDi009 Evergreen Drive storm drain collection facilities extending service south of E-basin, improvements include 30° and 36° pipes that will carry runoff to Basin "E". | \$83,000 | \$63,000 | so | \$21,000 | \$21,000 | \$21,000 | \$0 | \$0 | \$0 | , |
| | | | | | . • | | | | | |

TABLE 5 - 1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING STORM DRAINAGE

21-Aug-91

| Project Number | | Program Cost | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/98 | 1996/97 | 1997-2002 | 2002-2007 |
|-------------------|--|-----------------|--------------------|-----------|-------------|------------|-----------|-----------|-------------|-------------|-----------|
| MSDI010 | Westgate Park expansion and development. Park improvements are not included. | \$1,934,000 | \$1,934,000 | so ' | \$1,343,000 | \$157,000 | \$157,000 | \$277,000 | SO | so | so |
| MSDI011 | Development of new Basin "F", located north of Kettleman Lane and west of Lower Sacramento Road. Service area includes land west of Lower Sacramento Road, north of Kettleman, and south of the WiD canai. Park improvements are not included. | \$3,519,000 | \$3,519,000 | SO | SO | \$0 | SO. | SO | SO | \$2,532,000 | 5887.000 |
| MSDI012 | Basin "F" storm drain collection facilities extending north of Basin "F" including 54", 48", and 30" pipes. | \$367,600 | \$367,000 | w | SO | SO | \$0 | SO SO | \$0 | SO. | \$367,000 |
| MSDI013 | Storm drain consisting of 38" and 30" pipes extending easterly from the existing 54" trunk line north of Kettleman Lane, Exact location not yet determined. | \$149,000 | \$149,000 | so | so | so | so | so | \$0 | \$149,000 | \$0 |
| MSD1014 | Basin "F" outfall storm drain consisting of 30" pipes extending easterly from the basin to the existing 54" trunk line. | \$184,000 | \$184,000 | \$0 | \$0 | \$0 | so | w | \$ 0 | \$184,000 | \$0 |
| MSDI015 | Basin "G" storm drain collection facilities consisting consisting of 48" and 38" pipes extending southerly and easterly from Basin "G". Exact location not yet determined. | \$261,000 | \$261,000 | \$0 | \$0 | \$0 | SO. | so | \$0 | \$261,000 | \$0 |

PAGE 2OF 3

TABLE 5 - 1 DEVELOPMENT RELATED CAPITAL COSTS AN3 PHASING STORM DRAINAGE

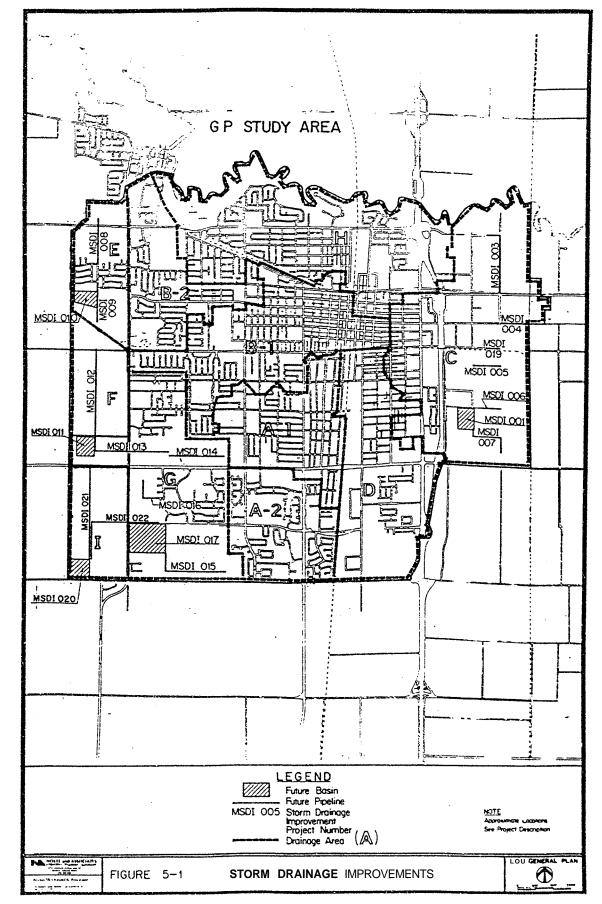
21-Aug-91

| Project Number | | Program Cost | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/98 | 1996/97 | 1997-2002 | 2002-2007 |
|-------------------|---|-----------------|--------------------|---------------|---------|-------------|----------|---------|-----------|--------------|------------|
| MSDIG18 | Basin "G" collection facilities consisting of 30" and 36" pipes extending westerly and northerly from the existing 36" trunk in Orchis Way. Exact Location not yet determined. | \$64,000 | \$64,000 | \$84,000 (1) | \$0 | \$0 | \$0 | \$0 | \$0 | , \$0 | \$0 |
| MSDH017 | Expansion and development of Basin "G". Golf course improvements are not included. | \$3,744,000 | \$3,744,000 | \$108,000 (1) | \$0 | \$2,000,000 | \$50,000 | \$0 | \$817,000 | \$769,000 | \$0 |
| MSD1018 | Master Plan/Updates | \$50,000 | \$50,000 | \$10,000 (1) | \$0 | \$0 | \$0 | \$0 | \$20,000 | \$20,000 | \$0 |
| MSDI020 | Development of Basin "I" located south of Kettleman Lane and west of Lower Sacramento Road | \$3,619,000 | \$3,619,000 | so | so | so | so | SO | SO | so | f3.819.000 |
| MDSl021 | Basin "I" collection facilities consisting of 30, 36, 42, and 48 inch pipes extended north of the basin. | \$265,000 | \$265,000 | so | SO | SO | SO | \$0 | \$0 | SO | \$265,000 |
| MDSi022 | Basin "I" discharge consisting of 42" inch pipe extending north and east to Basin "G". | \$275,000 | \$275,000 | so | so | SO | SO | SO | so | SO SO | \$275,000 |
| | Upgrades to Existing Facilities | \$1,051,000 | SO | SO | SO | SO | so | SO | \$0 | \$0 | SO |
| | Parkwest (E – area) Reimbursement Agreement | \$266,838 | \$266,838 | so | so | so | so | so | \$266,838 | \$0 | so |
| | Sunwest (G - area) Reimbursement Agreement | \$154,869 | \$154,869 | SO | so | SO | SO | SO. | \$154,869 | \$0 | \$0 |

NOTE:

(1) Previously Appropriated from Drainage Fees .

PAGE 3 CF3



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Relationship of Storn Drainage Projects to New Development

A reasonable relationship must be established between the projects and improvements funded by the fee and the type of development upon which the fee is imposed. Essentially, it is incumbent upon the City to show that the development $i\,s$ served by and/or benefits from the public facilities to be financed by the fee revenue.

City ${m of}$ Lodi Storm Drainage Master Plan presents a soundly conceived and comprehensive plan for providing storm drainage services to all areas ${m of}$ the General Plan. Only those improvement costs benefitting the areas included in the fee program are included in the fee program.

Relationship of Storm Drainage Projects to Land Uses

Once the relationship between the facilities to be constructed and the land uses has been established, the burden of financing is to be distributed to each land use in proportion to its use of, or benefit from, the improvements. This is accomplished through the use of a Residentiai Acre Equivalent (RAE) schedule. A RAE schedule indicates the relative responsibility to pay for improvements for each land use category in relation to the single family detached residential category.

The concept of RAE is based upon defining a base demand that, in this case, is selected to be an acre of low density single family detached dwelling units. The base acre has an assigned RAE of 1.0 . All other land use categories have RAE factors that show their relative demand for Storm Drainage Facilities compared to the base acre of low density single family housing.

Based upon the cost of facilities to provide comparable levels of service to residential and commercial/industrial areas, the City has adopted a commercial/industrial fee that is 1.33 times the residential fee. Following a review of the methodology employed by the City, it is concluded the methodology is reasonable and fairly compares the demand for storm drainage facilities by the various land uses. Therefore, the City adopted (and defacto) RAE schedule is incorporated into this study.

Recommended Fees

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The Storm Drainage Facilities Fee is shown in Table 5-2. The total fee is \$7,910 per low density residential acre.

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RP0033-B

TABLE 5-2 SUMMARY OF DEVELOPMENT IMPACT FEES STORM DRAINAGE

| Land Use Categories | Unit | RAE | Fee |
|-------------------------------|--------------|------|----------------------|
| RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$7,910 |
| Medium Density | Acre | 1.00 | \$7,910 |
| High Density | Acre | 1.00 | \$7,910 |
| East Side Residential | Acre | 1.00 | \$7,910 |
| PLANNED RESIDENTIAL | | | |
| Low Density Medium Density | Acre Acre | 1:88 | \$ 7 ;918 |
| High Density | Acre | 1.00 | \$7,910 |
| COMMERCIAL. | | | |
| Neighborhood Commercial | Acre | 1.33 | \$10,520 |
| General Commercial | Acre | 1.33 | \$10,520 |
| Downtown Commercial | Acre | 1.33 | \$1 0,520 |
| Office Commercial | Acre | 1.33 | \$10,520 |
| INDUSTRIAL | | | |
| Light Industrial | Acre | 1.33 | \$10,520 |
| Heavy Industrial | Acre | 1.33 | \$10,520 |

Note: Fee amounts shown are for fiscal year 1991/1992.

Sources: Nolte & Associates and Angus McDonald 8 Associates.

CHAPTER 6

STREETS AND ROADS

OVERVIEW

For as long as the City of iodi has been in existence, streets and roads have been the primary system used in intercity travel. With the change in Citywide growth, there welcome a need to improve the streets and roads in the community. The Draft General Plan will expand the City and additional traffic will be generated within the community. As a result new streets will be needed and existing streets will need to be improved. The following sections will describe these improvements, the City obligation for funding, and the fees calculated to reimburse the City costs.

Existing Traffic Conditions

Existing traffic counts were collected by the City of Lodi Public **Works** Dep rtment in **1987** at numerous locations throughout the City by the City and their traffic consultant. The data were used to establish the current Level of Service (LOS) within the project study area. Currently, roadways and intersections throughout the City are operating at a LOS of C or better with the exception of Hutchins Street/Kettleman Lane intersection, which operates at a LOS D. The City of Lodi considers C to be the standard level of service with anything less considered to be substandard.

Circulation Plan

In December of 1989, a City-wide circulation study was prepared by the Traffic Consultant, TJKM, that identified the impacts associated with the envisioned General Plan. As mentioned earlier, the existing traffic counts were done by the City's staff. Incorporating this information along with using a computer based travel demand model, TJKM was able to forecast future traffic conditions throughout the project study area. Based upon these forecasts, road sections of future streets and improvements to existing streets were identified.

A listing of general street, intersection, signalization, and interchange improvements was submitted to the City along with the circulation study. Working with City staff and the City improvement standards, cross-sections were prepared for future streets and improvements to existing streets. These are discussed in the following section.

Existing Deficiencies

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Existing definities are relatively minor and mainly consist of deteriorated pavement, and curb and gutter and drainage facilities on some streets. Project costs to correct existing deficiencies are not funded by development impact fees unless the correction is incidental to providing higher capacity

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to serve future growth. For example, Lockeford Street between the Southern Pacific Railroad and Cherokee Lane needs to be widened to four lanes and this project is included in the fee program. Incidental to widening Lockeford Street, curb and gutter will be reconstructed along the widened stretch.

Reconstruction, overlays and other maintenance activities are not included in the fee program. funding for these activities is derived from the general fund, gas taxes, TDA, Proposition 111 gas tax, Measure K sales tax, and other sources. Typically, general fund allocations are strictly used for operations and maintenance (0 & M) activities. Funds from other sources are allocated to 0 and M, capital and reconstruction activities.

Based upon the current budget for capital maintenance and reconstruction of \$1.66 million, a forecast was prepared for the program cost for similar work dcring the General Plan period. The total is shown in Table 6-1 as Enhancements to Existing Facilities in the amount of \$26.56 million. Funding for these program costs is anticipated to come primarily from General Fund, Gas Tax and Transportation Development Act (TDA) sources in proportion to existing funding levels of 52%, 26%, and 22%, respectively.

PLANNED CIRCULATION IMPROVEMENTS

Presently, the City policy toward funding street and road improvements applies only to limited access expressways such as Lower Sacramento Road and South Hutchins Street and widenings to existing streets. Based upon current State law and common practice in other agencies regarding impact fees and developers' requirements, it is recommended that present policy be changed. The following section describes the recommended policy and how it is implemented in this fee program.

Developer Required Improvements

The Property of

For all projects within the City, the developer is required to build streets to serve the project. Relative to street improvements, the developer is required to provide all improvements and dedicate all right-of-way for one half width street consisting of curb, gutter, sidewalk, one travel lane and a shoulder or parking lane. Maximum right-of-way dedication is 34 feet and is dependent upon existing right-of-way at the improvement location. Improvements required of the developer include 5.5 feet of curb and sidewalk, 2 feet of gutter, and 24 feet of paving that corresponds to those designated as a major collector. Typical section for a major collector is provided in Figure 6-1. In the case where development occurs on one side of a major collector, the developer typically is required to construct only one-half of the street. In the case where development occurs along a street having a greater designated capacity than a major collector, the development impact fee funds or other funds will be used to construct the more extensive improvements. Examples of these streets include: Kettleman Lane, Harney Lane, Century Boulevard, and Lower Sacramento Road.

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TABLE 6-1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING STREETS AND ROADS

21-Aug-91

| Project | Major Planned | Program | Impact | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2007 |
|---------|--|-------------|-------------|---------|------------|---------|-----------|----------|-------------|--------------------|------------|
| Number | Facilities | Costs | Fee Fund | | | | | | | | |
| MTS:001 | Restriping of Kettleman Lane (6 "Lanes, Divided) from Lower Sacramento Road to Ham Lane. | \$22,000 | \$22,000 | \$0 | s o | \$0 | so | so | \$0 | \$22,000 | \$0 |
| MTS1002 | Restriping of Kettleman Lane (6-Lanes, Divided) from Ham Lane to Stockton Street. | \$22,000 | \$22,000 | SO. | SO | SO | so | to | \$22,000 | SO | \$0 |
| MTSI003 | Restriping or Kettleman Lane (6 - Lanes, Divided) from Stockton Street to Cherokee Lane. | \$12,000 | \$12,000 | so | \$0 | to | SO | \$0 | \$12,000 | \$0 | \$0 |
| MTS1004 | Deeign, construction, and engineering associated with widening Kettleman Lane (Highway | \$5,106,000 | \$3,575,000 | so | SO | \$0 | SO | SO SO | \$1,787,500 | \$1,787,500 | to |
| 3 | 12) @ State Route 99. (Measure "K" Funding = \$700,000, State Funding = \$831,000) | ٠. | | | | | | | | N 112 | |
| MTS1005 | Widening of Kettleman Lane ('4-Lanes, Divided) from Beckman Road to Guild Avenue. | \$519,000 | \$519,000 | SO | so | so | \$259,500 | to | so | so | \$259,500 |
| MTS1008 | Widening of Lower Sacramento Road (8 - Lanes, Divided) from Turner Road to Lodi Avenue. (Measure "K" Funding = \$185,250) | \$463,250 | \$278,000 | so | \$0 | so | SO | \$30,580 | \$47,260 | \$200,160 | so |
| MTSH007 | Widening at Lower Sacramento Road (6 - Lanes, Divided) from Elm Street to Taylor Road. (Measure*K* Funding = \$130,000) | \$325,000 | \$195,000 | \$0 | so | \$0 | to | \$21,450 | \$33,150 | \$140 . 400 | \$0 |
| MTS1008 | Widening of Lower Sacramento Road (6- Lanes, Divided) from Taylor Roacito Kettleman Lane. (Measure "K" Funding = \$91,000) | \$228,000 | \$137,000 | SO | \$0 | \$0 | \$0 | \$0 | \$0 | \$137,000 | so |

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TABLE 6-1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING STREETS AND ROADS

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| Project Number | Major Planned Facilities | Program Costs | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/98 | 1996/97 | 1997-2002 | 2002-2007 |
|-------------------|---|------------------|--------------------|---------|---------|---------|---------|---------|-------------|-----------|-----------|
| MTSI009 | Widening of Lower Sacramento Road (6 T Lanes, Divided) from Kettleman Lane to Orchie Drive. (Measure "K" Funding # \$94,250) | \$235,250 | \$141,000 | SO SO | so | SO | SO | so | \$0 | \$141,000 | SO |
| MTSI010 | Widening of Lower Sacramento Road (5 - Lanes, Divided) from Orchis Drive to Century Blvd. (Measure "K" Funding = \$78,000) | \$195,000 | \$117,000 | so | so | SO | so | SO | \$0 | \$117,000 | so |
| MTSI011 | Widening of Lower Sacramento Road (6" Lanes, Divided) from Century Bivd. to Kristen Court. (Measure "K" Funding= \$120250) | \$300,250 | \$180,000 | so | 50 | \$0 | SO | \$0 | \$ 0 | \$0 | \$180,000 |
| MTSЮ12 | Widening of Lower Sacramento Road (6 * Lanes, Divided) from Kristen Count to Harney Lana. (Measure *K* Funding = \$52,000) | \$130,000 | \$78,000 | SO | \$0 | SO | SO | so | so | SO | \$78,000 |
| MTS1013 | Widening of Harney Lama (4 ⁻ Lanes) from Lower Sacramento Road East 2,650 feet. | \$173,000 | \$173,000 | so | so | so | so | so | \$0 | \$173,000 | SO |
| MTS1014 | Widening of Harney Lane (4 Tanes) from W.i.D. crossing West 2,650 feet. | \$173,000 | \$173,000 | so | \$0 | \$0 | so | SO | \$0 | \$173,000 | SO |
| MTS1015 | Widening of Harney Lane (4 -Lanes) ban W.I.D. crossing East2,250 leet. | \$120,000 | \$120,000 | so | so | \$0 | so | so | \$0 | \$120,000 | SO |
| MTS1016 | Widening of Harney Lane (4 "Lanes) from Hutchins Street to Stockton Street. | \$120,000 | \$120,000 | so | \$0 | so | so | \$0 | SO | \$120,000 | so |
| MTSI017 | Widening of Harney Lane (4 ~ Lanes) from Stockton Street to Cherokee Lane. | \$147,000 | \$147,000 | SO | \$0 | so | so | so | \$0 | \$147,000 | SO |

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TABLE 6-1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING STREETS AND ROADS

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| Project | Major Planned | Program | Impact | | | | | | | | |
|---------|---|-------------|-------------|-------------|---------|----------|---------|-------------|-----------|-----------|-------------|
| Number | Facilities | Costs | Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/98 | 1996/97 | 1997-2002 | 2002-2007 |
| MTSI018 | Widening of Harney Lane (4— Lanes) from Lower Sacramento Road to the General Plan Boundary. | \$179,000 | \$179,000 | SO | so | so | so | so | to | \$0 | \$179,000 |
| MTSi019 | Highway 12 Project Study Report | \$90,000 | \$90,000 | \$90,060 | SO | SO | so | SO | so | so | \$0 |
| MTSI020 | Design, construction, and engineering associated with widening of Turner Road over State Route 99. | \$1,500,000 | \$1,500,000 | SO | so | so | \$0 | so | \$0 | so | \$1,500,000 |
| MTSi021 | Restriping of Lodi Avenue (4 - Lanes) from Cherokee East 3,000 Seet. | \$13,000 | \$13,000 | so | so | SO | SO | \$0 | so | \$0 | \$13,000 |
| MTSi022 | Reconstruction of Lodi Avenue (4 "Lanes) from Guild Avenue West 700 feet. | \$33,000 | \$33,000 | so | so | SO | SO | \$ G | so | \$33,000 | , sc |
| MTSI023 | Restriping of Turner Road (4 - Lanes) from Beckman Road East 2,500 feet. | \$11,000 | \$11,000 | c \$ | SO | so | so | \$0 | so | \$0 | \$11,000 |
| MTSI024 | Widening of Turner Road (4—Lanes) from Guild Avenue West 700 feet. | \$22,000 | \$22,000 | \$0 | so | \$0 | SO | \$0 | \$0 | \$0 | \$22,000 |
| MTS1025 | Wideningof Century Blvd. (4 T Lanes) from Lower Sacramento Road east 4,100 feet. | \$240,000 | \$240,000 | so | SO | \$0 | so | \$0 | \$240,000 | so | so |
| MTSI026 | Widening of Century Blvd. (4 Lanes) from Stockton Street to Chickadee Lane. | \$31,000 | \$31,000 | \$0 | so | \$31,000 | SO SO | SO SO | so | so | so |

TABLE 6-1 DEVELOPMENTRELATED CAPITAL COSTS AND PHASING STREETS AND ROADS

21-Aug-91

| Project | Major Planned Facilities | Program Costs | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/98 | 1996/97 | 1997-2002 | 2002-2007 |
|---------|--|------------------|--------------------|----------|----------|-----------|----------|----------|----------|-----------|-------------|
| Number | racuities | CORRE | 1001013 | | | | | | | | |
| MTS1027 | Widening of Stockton Street (4 Tanes) from Kettleman Lane to Harney Lane. | \$81,000 | \$81,000 | \$40,500 | so | \$40,500 | \$0 | so | so | so | \$0 |
| MTSi028 | Widening of Guild Avenue (4 ~ Lanes) from Lodi Avenue to Kettleman Lane. | \$168,000 | \$168,000 | \$20,160 | \$10,080 | \$10.060 | \$10.080 | \$10,080 | \$10,080 | \$48,720 | \$48.720 |
| MTSI029 | Widening of Turner Road (4 - Lanes) from Lower Sacramento Road West to the General Plan Boundary. | \$84,000 | \$84,000 | SO | SO SO | SO | \$0 | \$42,000 | \$42,000 | \$0 | \$0 |
| MTSI030 | Widening of Lodi Avenue (4 Lanes) from Lower Sacramento Road West to the General Plan Boundary. | \$84,000 | \$84,000 | SO | \$0 | SO | SO SO | \$0 | \$0 | SO . | \$84,000 |
| MTSI031 | Widening of Kettleman Lane (4 - Lanes) from Lower Secramento Road West tothe General Plan Boundary. | \$178,000 | \$178,000 | so | \$0 | so | SO | SO. | \$0 | so | \$178,000 |
| MTS1032 | Widening of Lockeford Street (4 "Lanes) from Sacramento Street to Cherokee Lana. | \$1,267,000 | \$1,267,000 | \$0 | SO | so | so | SO | SO | SO | \$1,267,000 |
| MTS1033 | Widening of Victor Rd.(Hwy 12) to 4 lanes. | \$342,000 | \$342,000 | SO | \$0 | SO | \$0 | SO SO | SO | W | \$342,000 |
| MTSO001 | Master Plan 1987 | \$76,187 | \$78.187 | \$76,187 | \$0 | \$0 | SO | \$0 | so | SO. | \$0 |
| MTS0002 | Master Plan and C.I.P. Update = 1997 | \$20,000 | \$20,000 | SO | w | \$0 | \$0 | so | \$20,000 | so | \$0 |
| MTS0003 | 5 Year Master Plan end C.I.P Update = 2002 | \$20,000 | \$20,000 | so | so | \$0 | \$0 | \$0 | \$0 | \$20,000 | \$0 |

TABLE 6-1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING STREETS AND ROADS

21-Aug-91

| Project | Major Planned | Program | Impact | | | | | | | | |
|---------|---|----------|----------|----------|---------|----------|---------|----------|-------------|-----------|-----------|
| Number | Facilities | Costs | Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2007 |
| MTS001 | Installation of traffic signal located at the int. of Lower Sacramento Road and Turner Road. | \$95,000 | \$95,000 | to | so | \$95,000 | to | so | \$0 | so | to |
| MTS002 | Installation of traffic signal located at the int. of Turner Roadand the State Route 99 Southbound Ramp. | \$95,000 | \$95,000 | \$0 | so | \$0 | so | \$0 | \$0 | to | \$95,000 |
| MTS003 | Installation of traffic signal located at the int. of Victor Road and Cluff Avenue. (50%) | \$95,000 | \$47,500 | \$47,500 | SO | \$0 | \$0 | to | \$0 | SO | \$0 |
| MTS004 | Installation of traffic signal located at the int. of Lodi Avenue and Lower Sacramento Rood. (50%) | \$95,000 | \$47,500 | \$47,500 | so | so | \$0 | SO | SO | \$0 | to |
| MT9005 | Installation of traffic signal located at the inst. of Lodi Avenue and Mills Avenue. (50%) | \$95,000 | \$47,500 | \$0 | so | \$0 | SO | to | SO | \$47,500 | so |
| MTS006 | Installation of traffic signal locatedat the int, of Lower SacramentoRoad and Vine Street. (50%) | \$90,000 | \$45,000 | SO | SO | to | \$0 | so | SO | \$45,000 | \$0 |
| MTS007 | Installation of traffic signal located at the int. of Kettleman Lane and Mills Avenue. '(50%) | \$95,000 | \$47,500 | \$47,500 | SO | SO | to | \$0 | \$ 0 | \$0 | SO |
| MTS008 | installation of traffic signal located at the int. of Kettleman Lane and the State Route 99 Southbound Ramp. | \$95,000 | \$95,000 | so | so | \$0 | to | \$95,000 | so | \$0 | so |

21-Aug-91

TABLE 6-1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING STREETS AND ROADS

| | Project Number | Major Planned Facilities | Program Costs | Impact Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2007 |
|----------|-------------------|--|------------------|--------------------|----------|----------|---------|----------|----------|----------|-----------|-----------|
| | MTS009 | In stallation of traffic signal located at the Int. of Kettleman Lane and Beckman Road. | \$95,000 | \$95,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$95,000 | \$0 | \$0 |
| | MTS010 | Installation of traffic signal located at the int. of Lower Sacramento Road and Harney Lane. | \$95,000 | \$95,000 | \$0 | \$0 | \$0 | \$0 | \$95,000 | \$0 | \$0 | \$0 |
| | MTS011 | Installation of traffic signal located at the int. of Harney Lane and Mills Avenue. | \$90,000 | \$90,000 | \$0 | \$0 | \$0 | \$0 | ŞO | ŞO | \$30,000 | \$0 |
| 58 58 | MTS012 | Installation of traffic signal located at the int. of Harney Lane and Ham Lane. | \$90,000 | \$90,000 | \$0 | \$0 | \$0 | . \$0 | \$0 | \$0 | \$0 | \$90,000 |
| | MT5013 | installation of traffic signal located at the int. of Harney Lane and Stockton Street. (50%) | \$90,000 | \$45,000 | \$0 | \$45,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| | MTS014 | Installation of traffic signal located at the int. of Elm Street and Lower Sacramento Road. (50%) | \$90,000 | \$45,000 | \$45,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| | MTS015 | Installation of traffic signal located at the int. of Lockeford Street and Stockton Street. (50%) | \$90,000 | \$45,000 | \$0 | \$0 | \$0 | \$45,000 | \$0 | \$0 | \$0 | \$0 |
| | MTS016 | Installation of traffic signal located at the Int. of Turner Road and Stockton Street. (50%) | \$90,000 | \$45,000 | \$45,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

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TABLE 6-1
DEVELOPMENTRELATED CAPITAL COSTS AND PHASING
STREETS AND ROADS

was a supplied to the control of the

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| Project Number | Major Planned Facilities | Program | Impact | 1991/92 | ******* | 400000 | 4004Dr | 1995/98 | 4000007 | 1007 0005 | 2000 2007 |
|-------------------|---|-----------|-----------|---------|---------|----------|---------|----------|-----------|-----------------|-----------|
| MOUNDEL | raciides | Costs | Fee Fund | 1991/82 | 1992/93 | 1993/94 | 1994/95 | 1990/90 | 1996/97 | 1997-2002 | 2002-2007 |
| MTS017 | Installation of traffic signal located at the int. of Pine St. and Stockton Street. (50%) | \$90,000 | \$45,000 | \$0 | \$0 | \$45,000 | \$0 | w | \$0 | \$0 | SO |
| MTS018 | Installation of traffic signal located at the int. of Turner Road and Mills Avenue. (50%) | \$90,000 | \$45,000 | \$0 | \$0 | so | \$0 | \$45,000 | \$0 | \$0 | so |
| MTS019 | Installation of traffic signal located at the int. of Turner Road and Edgewood. (50%) | \$90,000 | \$45,000 | \$0 | \$0 | so | \$0 | so | \$45,000 | \$0 | so |
| MTS020 | installation of traffic signal located at the int. of Kettleman Lane and Central Avenue. (50%) | \$90,000 | \$45,000 | \$0 | \$0 | so | \$0 | \$0 | \$45,000 | \$0 | SO |
| MT5021 | Installation of traffic signal located at the Int. of Elm Street and Mills Avenue (50%) | \$90,000 | \$45,000 | \$0 | \$0 | so | \$0 | so | \$45,000 | \$0 | \$0 |
| MTS022 | installation of traffic signal located at the int, of Cherokee Lane and Vine Street. (50%) | \$105,000 | \$52,500 | \$0 | \$0 | SO | \$0 | \$0 | \$0 | \$52,500 | so |
| MTS023 | Installation of traffic signal located at the int. of Ham Lane and Century Blvd. (50%) | \$95,000 | \$47,500 | \$0 | \$0 | SO | \$0 | 50 | \$0 | \$47,500 | so |
| MTS024 | Installation of traffic signal located at the int, of Cherokee Lane and Elm Street. (50%) | \$105,000 | \$52,500 | \$0 | \$0 | so | \$0 | SO | \$0 | \$52,500 | \$0 |
| MBC001 | Widening of WID Box Culvert slong Lower Sacramento Road approx. 1,360 feet South of Lodi Avenue. | \$296,000 | \$296,000 | \$0 | \$0 | \$0 | \$0 | w | \$296,000 | : · \$ 0 | so |

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TABLE 6-1

21-Aug-91

DEVELOPMENT RELATED **CAPITAL** COSTS AND PHASING STREETS AND **ROADS**

| Project | • | Program | Impact | 4444 | | 4000004 | **** | 1995/96 | 1996/97 | 19972002 | 2002-2007 |
|---------|--|-----------|-----------|---------|---------|---------|---------|---------|---------|-----------|------------|
| Number | Facilities | Costs | Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1892/90 | 1890/9/ | 1997-2002 | 2002-2007 |
| MBC002 | Widening of WiD Box Culvert along Turner Road approx. 2,400 feet West of Lower Sacramento Road. (50% S.J. Co.) | \$150,000 | \$75,000 | so | so | so | so | so | SO | \$75,000 | so |
| MBC003 | Widening of WID Box Culvert along Mills Avenue approx, 100 feet South of Royal Crest Drive. | \$141,000 | \$141,000 | to | SO | \$0 | SO | to | \$0 | \$141,000 | \$0 |
| MBC004 | Widening of WID Box Culvert along Harney Lane approx. 3,300 feet West of Hutchins Street. | \$216,600 | \$216,090 | to | so | \$0 | SO | so | \$0 | \$216,000 | SO SO |
| MRRX001 | Widening of S.P. railroad crossing on Lower Sacramento Road 1,400 ft. North of Turner Road. (50% S.J. Co.) | \$202,000 | \$101,000 | \$0 | SO | \$0 | SO | to | \$0 | \$101,000 | \$0 |
| MRRX004 | Widening and upgrade of protection devices of the sailroad crossing at the int. of Lockeford Street and Guild Avenue. | \$202,000 | \$202,000 | SO | SO | \$0 | \$0 | so | \$0 | \$0 | \$202,000 |
| MRRX005 | Widening of Central California Traction Co. crossing on Victor Rd. (Hwy 12) 1,350 ft. East of Guild Avenue. | \$222,000 | \$222,000 | \$0 | so | so | \$3 | SO | \$0 | \$0 | \$222,000 |
| MRRX008 | Widening and upgrade of protection devices of the railroad crossing at the intersection of Beckman Road and Lodi Avenue. | \$227,000 | \$227,000 | \$0- | so | \$0 | SO. | so | to | \$227,000 | \$0 |
| MRRX007 | 7 Construction of railroad crossing at int. of Lodi Avenue and Guild Ave. | \$215,000 | \$215,000 | to | SO. | so | \$0 | \$0 | \$0 | \$215,000 | SO . |

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TABLE 6-1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING STREETS AND ROADS

-21-Aug-91

| Project | Major Planned | Program | impact | | | | | | | | |
|----------|---|---|-------------|----------|----------|------------|----------|----------|----------|--------------------------|-----------|
| Number | Facilities | Costs | Fee Fund | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2007 |
| MRFX008 | Construction of railroad crossing at int. of Cluff Avenue and Thurman Street | \$189,000 | \$189,000 | \$0 | . \$0 | \$0 | \$0 | \$0 | \$0 | \$189,000 | \$0 |
| MRAXOCO | Widening and upgrade of protection devices of Central Calif. Traction Co. X-ing on Kettleman Ln. 1,350 ft. East of | \$215,000 | \$215,000 | \$0 | \$0 | \$0 | \$0 | . \$0 | \$0 | \$0 | \$215,000 |
| * * | Guild Ave. | | | | | | | | | | |
| | Widening of SP railroad crossing on Harney Ln. 1,380 ft. East of Hutchins Street. | \$202,000 | \$202,000 | . \$0 | so | so | SO | \$0 | so | \$202,000 | so |
| | Upgrades to Existing Facilities | \$26,580,000 | \$0 | \$0 | so | so | SO. | SO | SO | so | \$0 |
| | New Development Share of Existing a. Hutchins St. Widening— Tokay to Lodi (93%) b. Hutchins St. Widening— Plant of Vine (58%) c. Lockeford St. Widening— Pleasant to SPRR (80%) d. Cherokee/Century Inter— section Widening (100%) e. Century/WID Box Culvort (88%) f. Stockton St. Widening— Kottleman to Vine (100%) g. Stockton St. Widening— Vine to Tokay (100%) | \$41,628 \$151,458 \$59,838 \$46,373 \$109,551 \$483,597 \$82,235 | | | | | | | | | |
| | h. Turner/Cluff Intersection Widening (100%) | \$138,835 | | 1.00 | | | | | | | |
| NEW DEVE | LOPMENT SHARE SUBTOTAL: | \$1,094,000 | \$1,094,000 | \$68,375 | \$68,375 | \$68,375 | \$68,375 | \$68,375 | \$68,375 | \$341,875 | \$341,875 |
| NEW DEVE | h. Turner/Cluff Intersection Widening (100%) | \$138,835 | | | | | | | | \$341,875 \$5,422,655 | \$5 |

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Signal lights, bridge crossings, and freeway interchanges are not privately constructed facilities and are completely funded by the City through development impact fees and other funding sources such as Federal, State, County and Measure K.

Street. and Road Improvements

A listing of the street and read improvement projects included in the development impact fee program is provided in Table 6-1. Location of these projects is shown on Figure 6-2. For the most part, the improvement projects consist of new construction and modification of routes.

For the purpose of identifying the portion of each major route that will be funded by the City, the typical sections described above have been assumed. The developer obligation, as described in the previous section, is limited to right-of-way and improvements to construct a major collector (68 feet).

In the circulation study prepared for the City, the need for new traffic signals was identified. Costs of these signals have been included in the development impact fee program. At locations where minimum CalTrans signal warrants have already been met, 50 percent of the improvement cost has been allocated to the Impact Fee Fund.

Freeway Improvements

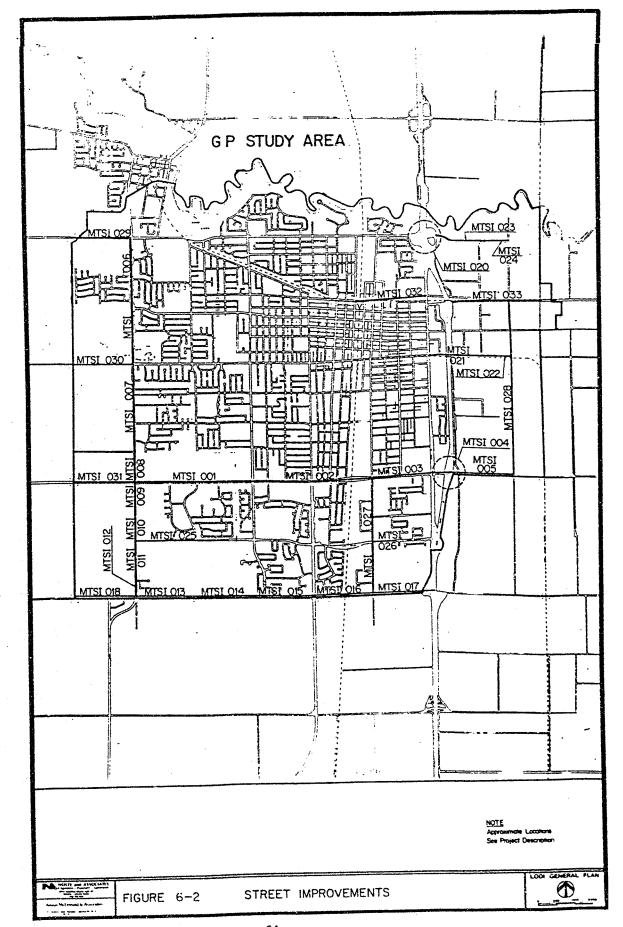
As recommended by TJKM, interchange improvements for Kettleman Lane/State Route 99 and Turner Road/State Route 99 will be necessary to maintain a LOS C or better. Proposed interchange improvements at Kettleman Lane/State Route 99 call for the realignment of Beckman Road. Currently, Beckman Road is located about 225 feet east of the northbound ramp onto State Route 99, a distance that is considered too close for two signalized intersections. Realignment of Beckman is proposed in the environmental impact report for Kettleman Properties located at the northeast corner of Kettleman Lane and Beckman Road. The proposed design constitutes a realignment of both Beckman Road and the northbound Offramp, but is still subject to review by Caltrans and approval by the California Transportation Commission. As part of the Kettleman interchange work, a route study will be prepared that will address traffic and circulation at the interchange.

Measure K identified the SR 99/12 interchange as a funded project in the amount of \$700,000. For the purposes of this study, it is assumed that 30 percent of the interchange costs will be derived from sources outside this fee program. A portion of the 30 percent will be Measure K funds and the other could be State funds or possibly additional growth in Lodi not covered by this study.

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FIGURE 6-1 TYPICAL STREET SECTION



ESTIMATED COSTS AND PHASING

In Table 6-1, a summary of the street projects and development impact fee funding is presented. Estimated costs are referenced to the Engineering News Record 20 Cities Construction Cost Index for January 1, 1990 of 4673. Roadway improvement costs reflect only the City's funding responsibility per the proposed City Reimbursement Policy and do not reflect the total estimated construction cost.

In preparing the estimates of construction cost, the developer obligation, City obligation and development impact fee funding for the projects, the following factors were considered. The City obligation for funding of projects includes everything not required of the developer including special medians, landscaping, and right-of-way.

Phasing of the improvements is based upon the Forecast of Units Constructed Over the General Plan Period (Appendix A) provided by the City. In Table 6-1, the phasing is divided by year for the first seven years followed by two five-year increments. Costs for the projects serving the General Plan development funded on or before July 1, 1991 are shown in the current year (1991/92). Actual costs of these projects Rave been adjusted to the January 1, 1990 dollar reference.

Lower Sacramento Road is also included in the list of projects funded, in part, by Measure K. Based upon discussion with the City, the funding of Lower Sacramento Road improvements are divided amongst the City fee program, developer and Measure K. Obligations of the developer have been discussed. For the purposes of this study, it is assumed that Measure K funds will pay for 2 lanes (one each direction). Therefore, the obligation of the City Fee Program is for 2 lanes and the center median and curbs.

Relationship of Streets and Roads Projects to New Development

A reasonable relationship must be established between the fees use and the type of development on which the fee is imposed. In order to establish this relationship, we must first demonstrate that the type of development upon which the fee is to be charged will, in fact, use, be served by, or benefit from the public facilities to be financed.

Each and every land use will benefit from the streets and road facilities within the community. Residents use the streets to get to and from work, shopping, and entertainment. Commerce and industry use the streets for deliveries, customers, and employees. Each and every land use in the Proposed General Plan will benefit from the facilities constructed as part of the capital improvements program and, therefore, is appropriately part of the fee program.

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Relationship of Streets and Roads Projects to Land Uses

Once the relationship between the facilities to be constructed and the land uses has been established, the burden of financing is to be distributed to each land use in proportion to its use of, or benefit from, the improvements. This is accomplished through the use of a Residential Acre Equivalent (RAE) schedule. A RAE schedule indicates the relative responsibility to pay for improvements for each land use category in relation to the single family detached residential category.

Trip generation factors developed and used in the Circulation Study form the basis for calculating an RAE schedule for streets and road facilities. Based upon recommendation of the City Transportation Consultant, trip generation factors for commercial categories were reduced by 30 percent to compensate for pass-by trips. As a result, net trip generation factors were calculated for each land use and compared to the base RAE factor of 1.0 for single family detached residential. The RAE schedule shows a reasonable relationship between the cost of streets and roads projects and the financing burden placed on each land use as based upon their relative generation and demand for streets and road facilities. RAE schedule for streets and roads is shown in Table 6-2.

Recommended Fees

The Streets and Road Facilities Fee is shown in Table 6-2. The total fee is \$5,470 per low density residential acre.

Regional Facilities

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The fee program presented in this report does not include funding for improvements to roads outside the City of Lodi General Plan boundaries. The a cent sales tax override for transportation (Measure K) recently approved by San Joaquin County voters, includes a provision for Regional Traffic Mitigation fees to be adopted by January 1, 1993. This fee program will need to be modified in coordination with San Joaquin County and the Council of Governments (the local transportation authority) to include a regional element.

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TABLE 6-2 21-Aug-91
SUMMARY OF DEVELOPMENT IMPACT FEES
STREETS AND ROADS

| Land Use Categories | Unit | RAE | Fee |
|----------------------------|------|------|------------------|
| | | | |
| RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$5,470 |
| Medium Density | Acre | 1.96 | \$10,720 |
| High Density | Acre | 3.05 | \$16,680 |
| East Side Residential | Acre | 1.00 | \$5 , 470 |
| PLANNED RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$5,470 |
| Medium Density | Acre | 1.96 | \$10,720 |
| High Density | Acre | 3.05 | \$16,680 |
| COMMERCIAL | | | |
| Neighborhood Commercial | Acre | 1.90 | \$10,390 |
| General Commercial | Acre | 3.82 | \$20,900 |
| Downtown Commercial | Acre | 1.90 | \$10,390 |
| Office Commercial | Acre | 3.27 | \$17,890 |
| INDUSTRIAL | | | |
| Light Industrial | Acre | 2.00 | \$10,940 |
| Heavy Industrial | Acre | 1.27 | \$6,950 |
| <u> </u> | | | |

Note: Fee amounts shown are for fiscal year 199111992.

Sources: Nolte a Associates and Angus McDonald & Associates.

CHAPTER 7

POLICE

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Level of Service

Target for emergency response time is 3 minutes anywhere in the City. Currently, emergency response times are under this goal. There were a total of 65 sworn personnel and 33 non-sworn personnel authorized in 1988/89. These figures reveal a service standard of 0.95 sworn personnel and 0.47 non-sworn personnel per 1,000 persons served. Currently, the department is understaffed relative to the standard described above by 11 sworn and 5 non-sworn personnel.

The service level that is typically espoused for Police is so-many officers per 1,000 residents. This service standard does not account for employees, shoppers, tourists and other persons present in the service area during the day who may use or require assistance from the Police Department. Developing a standard in terms of "Persons Served" considers all persons who may use these services so that the service standard also captures the burden these other participants will place on the facilities. This is done through estimating the demand or use of the facilities by persons associated with each land use type.

Instead of determining the use from each unit of land developed, as is the procedure with RAEs, the use of each land use is converted into a use per person. In the case of residential land uses this takes the form of use per resident, and in the case of non-residential uses is a use per employee. These use per "person served" figures are then normalized around the Single Family land use to produce "Persons Served" factors which are applied to a forecast of the total number of residents and employees from each land use to compute the total persons served from new development.

Existing Police Facilities

The Lodi Police Department provides police protection services to all areas within **the** city limits. The Police Department serves a **9.4** square mile area with an estimated population of 50,300 in 1990. The Police Department, located at 230 W. Elm Street, has an estimated 21,571 square feet of building space. The current employee standard based 98 total employees is 1.3 employees per 1,000 persons served. The current space standard is 220 square feet of building space per employee.

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Existing Deficiencies

Existing deficiencies are calculated based on what is currently provided in the way of staff and facilities and what staff and facilities are planned to be provided at the end of the planning period. Further, the existing deficiency calculation is prepared to identify the portion of the facilities, if any, which should be serving existing development based upon a current staffing or facility deficiency relative to the future standard for police staffing and space.

Table 7-1 presents the calculation of the existing deficiency for the Police Station Expansion. Based upon forecasts provided by the City for building space and police staffing in the future, the space standard and the staffing standard increase slightly. This produces only a very minor existing deficiency such that 7.3% of the Police Station Expansion $i\,s$ not funded from the development impact fees.

PLANNED POLICE FACILITIES

Police facilities to serve at buildout of the Proposed General Plan were identified by City staff and the Police Department. A summary of the facilities $i\,s$ presented in Table 7-2. With the exception of the Police Station expansion and the jail expansion, the major facilities are self explanatory.

Currently, alternatives for police and jail facilities are being considered by the City and the Police Department. Specific locations for the facilities have not been identified. Alternatives being considered include renovation and expansion of the existing Police Station.

ESTIMATED COST AND PHASING

In Table 7-2, a summary of the Police facility and estimated costs to serve the future City of Lodi is presented. Estimated costs are referenced to the Engineering News Record 20 Cities Construction Cost Index for January 1, 1990 of 4673. Phasing of the improvements is based upon forecasts of facility needs by the City over the planning period.

For the purposes of fee study, the police station expansion costs are not wholly attributable to the development provided for under the Proposed General Plan. A portion of the building expansion (7.3%) will serve existing development. The cost in Table 7-2 reflects the reduced estimated cost. The jail expansion and the other facility costs listed in Table 7-2 are not subject to **the** existing deficiency reduction.

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| Description of Item | Existing Service | Future | Future |
|---|---------------------|-------------|-------------|
| | Population | Additions | Total |
| GENERAL GOV. PERSONS SERVED | 81,470 | 35,796 | 117,274 |
| SERVICE CAPACITY | | | |
| Police Employees | 98.0 | 43.0 | 141.0 |
| Police Facilites (Sq. Ft.) | 21,571 | 10,000 | 31,571 |
| SERVICE STANDARD | | | |
| Current Service Standard: | | | |
| Police Employees Per | 1.20 | | |
| 1,000Persons Served | | | |
| Building Sq. Ft. Per Employee | 220.1 | | |
| Target Service Standard | | | |
| Police Employees Per | | | 1.20 |
| 1,000Persons Served | | | |
| Building Sq. Ft. Per Employee | | | 223.9 |
| ADDITIONAL SERVICE CAPACITY REQUIRED | | | |
| Additional Employees | 0.0 | 43.0 | 43.0 |
| Additional Building Area (Sq. Ft.) | | | |
| For Existing Employees | 372 | | 372 |
| For New Employees | 0 | 9,618 | 9,618 |
| Total | 372 | 9,618 | 9,990 |
| Burden on New and Existing Development | 3 .7 % | 96.3% | 100.00% |
| Cost of New Facilities | \$74,000 | \$1,926,000 | \$2,000,000 |

Note: Fee amounts shown are for fiscal year 1991/1392
Sources: Note & Associates and Angus McDonald & Associates

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TABLE 7-2 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING POLICE

21-Aug-91

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| Project Number | | Program Cost | Impact Fee | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-20 |
|-------------------|---|------------------------|------------------------|----------|---------|----------|---------|----------|----------|------------------------|--------------|
| LPD001 | Police Station expansion to add 10,000 square feet of space. | \$2,000,000 | \$1,925,900 | W | w | \$0 | \$0 | \$0 | \$92,900 | \$1,833,100 | |
| LPD002 | Jail expansion to add | \$275,000 | \$275,000 | \$0 | to | \$0 | to | W | \$27,500 | \$247,500 | |
| LPD003 | Miscellaneous safety equipment for 29 officers. | \$44,000 | \$44,000 | \$3,000 | \$3,000 | \$3,000 | \$3,000 | \$3,000 | \$3,000 | \$13,000 | \$13, |
| LPD004 | Animal control truck and equipment | \$23,000 | \$23,000 | to | to | W | \$0 | \$0 | \$0 | \$0 | \$23, |
| LPD005 | 2 pickup trucks equipped with radios and other equipment. | \$36,000 | \$36,000 | to | \$0 | W | to | W | \$0 | \$36,000 | |
| LPD008 | Eight patrol care and equipment. | \$144,000 | \$144,000 | \$18,000 | \$ó | \$18,000 | SO | \$18,000 | \$0 | \$36,900 | \$54, |
| LPD007 | Ten portable radios. | \$26,000 | \$26,000 | · W | \$3,000 | \$0 | \$3,000 | W | \$3,000 | \$3,000 | \$8, |
| LPD008 | Five work stations. | \$20,000 | \$20,000 | to | \$4,000 | \$0 | to | \$4,000 | \$0 | \$4,000 | 38. |
| | Five computer terminals. POLICE DEPARTMENT | \$8,000 \$2,576,000 | \$8,000 \$2,502,000 | \$0 | \$1,500 | \$0 | \$1,500 | to | \$0 | \$2,500 \$2,181,100 | \$ 2. |

PAGE 1 OF 1

DEVELOPMENT IMPACT FEE

Relationship of Police Projects to New Development

The relationship between existing deficiencies, improved service standards and capacity for new development was summarized in Table 7-1. Only the portion of the police facilities whose demand was generated by new development was included in the Development Impact Fee program.

Relationship of Police Projects to Land Uses

The RAE schedule for police facilities that is shown in Table 7-2 was developed **from** data supplied by the Lodi Police Department. The schedule is based on the relative number of calls for service from each land use category.

Recommended Fees

The Police Facilities fee is shown in Table 7-3. The total fee is \$1,110 per low density residential acre.

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TABLE 7–3 21-Aug-91
SUMMARY OF DEVELOPMENT IMPACT FEES
POLICE

| Land Use Categories | Unit | RAE | Fee |
|-------------------------|------|------|---------|
| RESIDENTIAL | | | |
| Low Density | Acre | 1,00 | \$1,110 |
| Medium Density | Acre | 1.77 | \$1,960 |
| High Density | Acre | 4.72 | \$5,240 |
| East Side Residential | Acre | 1.09 | \$1,210 |
| PLANNED RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$1,110 |
| Medium Density | Acre | 1.77 | \$1,960 |
| High Density | Acre | 4.72 | \$5,240 |
| CCMMERCIAL | | | |
| Neighborhood Commercial | Acre | 4.28 | \$4,750 |
| General Commercial | Acre | 2.59 | \$2,870 |
| Downtown Commercial | Acre | 4.28 | \$4,750 |
| Office Commercial | Acre | 3.72 | \$4,130 |
| INDUSTRIAL | | | |
| Light Industrial | Acre | 0.30 | \$330 |
| Heavy Industrial | Acre | 0.19 | \$210 |

Note: Fee amounts shown are for fiscal year 199111992

Sources: Nolte & Associates and Angus McDonald & Associates.

CHAPTER 8

FIRE

OVERVIEW

Level of Service

The level of service that guides ?he requirement for and placement of a new fire station is to provide a maximum of a three minute driving time to all areas within the City limits and the Limit of Utilities Planning.

Existing Fire Facilities

The City of Lodi Fire Department currently serves the City from three fire stations. Station #1 is located at 210 W. Elm Street, Station #2 is located at 705 E. Lodi Avenue and Station #3 is located at 2141 South Ham Lane. When these stations were constructed, they provided the desire service levels to the City and additional service capacity to the east, south and southwest areas. With new development occurring West of the existing City, additional fire protection capacity is required.

Existing Deficiencies

Currently, no major deficiencies exist in the Fire Facilities relative to the level and service standard for the City. Response times to some areas in the northwest are below the City standard. In a strict sense, correcting the existing deficiency in the northwest area should not be a cost allocated to the fee program. However, in the west side area, excess fire service capacity exists that will be used to serve future growth. Future growth should be required to purchase from the City excess capacity in the existing facilities. Considering that the existing deficiency is relatively minor compared to the excess capacity, and since the City has traditionally treated fire service on a city-wide basis, it is recommended that the fee be based solely on new capital expenditures. This serves to simplify the fee program and eliminates the need for zone fees and minor deficiency adjustments.

PLANNED FIRE FACILITIES

Fire Facilities to serve buildout of the Proposed General Plan were identified in the Fire Station Location Master Plan and by City and staff during preparation of this report. Major facilities projects are listed in Table 8-1. The new Fire Station (#4) will be located on Lower Sacramento Road near Park West Drive. Other facilities listed in Table 8-1 will equip Station #4 and expand capabilities at the other stations.

During the preparation of the fee study, a number of fire facility capital improvement projects were identified by the City. The nature of these

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TABLE 8 - 1 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING FIRE

21-Aug-91

GENERAL CITY PROJECT PHASNG

| Project Number | Description | Estimate Construction Cost | Impact Fee | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/98 | 1996/97 | 1997-2002 | 2002-2007 |
|-------------------|--|----------------------------|---------------|-------------|----------|-----------|-----------|---------|-----------|-----------|-----------|
| | New westside station construction (#4), furnishings and equipment. | \$475,000 | \$475,000 | SO | \$45,000 | \$430,000 | SO | so | so | so | SO |
| | New 100' ladder truck and equipment. | \$475,000 | \$475,000 | so | so | so | \$475,000 | SO SO | SO | SO | SO |
| LFD003 | Two sedans. | \$20,000 | \$20,000 | SO | so | so | to | SO | \$0 | \$10,000 | \$10,000 |
| LFD004 | Two mini-vans. | \$30,000 | \$30,000 | SO | \$0 | SO | SO | SO | \$15,000 | \$3 | \$15,000 |
| LFD005 | Five computers. | \$16,000 | \$16,000 | so | so | \$0 | SO | so | \$3,000 | \$6,000 | \$7,000 |
| * | Fire fighting Safety gear for 23 employees. | \$13,000 | \$13,000 | \$0 | so | \$0 | SO | \$0 | \$13,000 | \$0 | so |
| 7 | 12 self-contained breathing apparatus. | \$18,000 | \$18,000 | \$0 | SO | SO | SO | so | \$18,000 | \$0 | so |
| LFD008 | Station #1, Construction/remodel | \$18,000 | \$18,000 | SO | SO | SO | SO | SO | \$0 | \$18,000 | \$0 |
| | Equipment Replacement | \$1,090,000 | so | S O | \$0 | SO | 80 | \$0 | SO | to | 3 |
| TOTAL | FIRE | \$2,155,000 | \$1,065,000 | \$ 0 | \$45,000 | \$430,000 | \$475,000 | \$0 | \$49,000 | \$34,000 | \$32,000 |

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projects can be characterized as upgrading of existing facilities and purchase of equipment. As a result, only those costs directly related to extending the existing level of service to new development are included in the fee program. These costs (such as radios, fire engines and equipment replacement) are estimated to be \$1,065,000. No personnel are included.

ESTIMATED COST AND PHASING

A summary of the Fire Facility projects and estimated costs and phasing is presented in Table 8-1. Estimated costs are based upon the Engineering News Record 20 Cities Construction Cost Index for January 1990 of 4673.

DEVELOPMENT IMPACT FEE

Relationship of Fire Projects to New Development

As noted previously, existing deficiencies were not included in the Development Impact fee progrsm. Only those projects, or portions of projects, that serve new development were financed from Development Impact Fees.

Relationship of Fire Projects to Land Uses

The RAE schedule for fire facilities that is shown in Table 8-2 was developed from data supplied by the Lodi Fire Department. The RAE schedule considers relative number of fire calls and Emergency Medial Service (EMS) calls generated by each land use category. Calls involving automobile accidents and fires were spread back to the land use categories based on the streets and roads RAE factors.

Recommended Fees

The summary Fire Facilities fee is shown in Table 8-2. The total fee is \$520 per low density residential acre.

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RP0033-8

TABLE 8-2 21-Aug-91
SUMMARY OF DEVELOPMENT IMPACT FEES
FIRE

| Land Use Categories | Unit | RAE | Fee |
|-------------------------|------|---------------|-----------------|
| | | | |
| RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$5 20 |
| Medium Density | Acre | 1.96 | \$1,020 |
| High Density | Acre | 4.32 | \$2,250 |
| East Side Residential | Acre | 1.10 | \$570 |
| PLANNED RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$520 |
| Medium Density | Acre | 1 .9 6 | \$1,020 |
| High Density | Acre | 4.32 | \$2,250 |
| COMMERCIAL | | | |
| Neighborhood Commercial | Acre | 2.77 | \$1,44 0 |
| General Commercial | Acre | 1.93 | \$1,000 |
| Downtown Commercial | Acre | 2.77 | \$1,440 |
| Office Commercial | Acre | 2 .4 6 | \$1,280 |
| INDUSTRIAL | | | |
| Light Industrial | Acre | 0.64 | \$338 |
| Heavy Industrial | Acre | 0.61 | \$320 |

Note: Fee amounts shown are for fiscal year 1991/1992.

Sources: Nolte & Associates and Angus McDonald & Associates.

CHAPTER 9

PARKS AND RECREATION

OVERVIEW

This chapter of the report presents the cost estimates and the proposed phasing for each Park and Recreation improvements that are to be financed from development impact fee revenues. Government-Code §66000 specifies certain findings are necessary for a valid development impact fee. This chapter presents the required findings and presents the calculation of the Parks and Recreation fee.

Level of Service

The current level service for standard parks (not including school parks or drainage basins) is 3.3 acres per 1,000 Park and Recreation Persons Served and the current level of service for community center building space is approximately 1,765 square feet per 1,000 Park and Recreation Persons Served. The City has adopted standards of 3.4 acres per 1,000 persons served and 1,800 square feet of community center space per 1,000 persons served.

Existing Park and Recreation Facilities

Table 9-1 provides a summary of the existing park acreage in the City of Lodi. In the table, the most important number is the 177.8 acres of Standard Park area. It is this acreage that is used to compute the existing standard for park acreage. Based upon an estimated current usage of 53,713 park and recreation persons served, the existing standard for parks and recreation acreage is 3.3 acres per 1,000 persons served. Based upon an estimated current building space inventory of 94,800 square feet in community center buildings, the existing space standard is 1,765 square feet per 1,000 persons served. A summary of existing park facilities provided by the City and is presented in Table 9-2.

The adopted standards are slightly higher than what the City is currently providing. As a result, a small percentage of the new facilities will be paid for from funds generated outside of the fee program. This calculation is shown in Table 9-3.

The level of Parks and Recreation services is often expressed in terms of acres per 1,000 population. This service standard must be interpreted carefully. Employees, shoppers, tourists and other persons present during the day may use the park and recreation facilities in addition to residents of Lodi. The concept "Persons Served" considers all persons who may use these facilities so that the service standard also captures the burden these other participants will place on the facilities. A weighting factor is estimated that accounts for various categories of persons served in accordance with the

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TABLE 9-1 INVENTORY **OF** EXISTING **PARK** AND RECREATION ACREAGE

| | Existing Park Facilities | | | Future Parks | |
|---|--------------------------|----------------------|--------|--------------|----------------|
| Description | Total Acres | Standard Park | Basin | School | Total Acres |
| l. Armory | 3.2 | 3.2 | | | |
| 2. Beckman | 16.6 | 0.8 | 15.6 | | |
| 3. Blakely | 9.0 | 9.0 | | | |
| 4. Kandy Kane | 0.2 | 0.2 | | | |
| 5. Century (1) | 2.5 2.0 | 2.5 2.0 | | | |
| 6. Emerson 7. English Oaks Commons | 2.0 3.7 | 3.7 | | | |
| 7. English Oaks Commons 8. G-Basin | 0.0 | 0.7 | | | |
| 9. iienry Glaves | 12.6 | 3.0 | 9.6 | | |
| 10. Grape Bowl | 15.0 | 15.0 | | | |
| 11. Hate | 2.6 | 2.6 | | | |
| 12. Hutchins Street Square | 10.0 | 10.0 | | | |
| 13. Kofu | 10.0 | 40.0 | 10.0 | 2.2 | |
| 14. Lawrence/Zupo Hardball | 18.0 | 10.0 | | 8.0 | |
| 15. Legion | 5.6 | 5.6 1 01.0 | | | |
| 16. Lodi Lake | 101.0 1.0 | 1.0 | | | |
| 17. Maple Square 18. Pixley Park (C-1 Basin) | 17.0 | 1.0 | 17.0 | | |
| 19. Salas Park (C-1 Basin) | 21.C | 1.0 | 20.0 | | |
| 20. Softball Complex | 7.6 | 7.6 | _0.0 | | |
| 21. Van Buskirk | 1.0 | 1.3 | | | |
| 22. Vinewood | 14.0 | 0.3 | 11.2 | 2.0 | |
| 23. Uestgate | 6.0 | 0.3 | 5.7 | | |
| 24. Uashtngton School | 5.1 | | | 5.1 | |
| 25. Lakewood School | 5.0 | | | 5.0 | |
| 25. Reese School | 6.0 | | | 6.0 | |
| 27. Nichols School | 5.8 2.0 | | | 5.8 2.0 | |
| 28. Heritage School 29. Woodbridge School | 5.0 | | | 5.0 | |
| 30. Sr. Elementary | 12.0 | | | 12.0 | |
| 31. Lodi High School | 25.0 | | | 25.0 | |
| 32. Tokay High School | 21.0 | | | 21.0 | |
| 33. Needham school | 2.0 | | | 2.0 | |
| Westgate Expansion | | | 13.4 | | 0.6 |
| 6-Basin | | | 50.0 | | 1.0 |
| F-Basin | | | 24.0 | | 1.0 |
| I-Basin | | | 24.0 | | 1.0 |
| C-Basin Expansion | | | 8.0 | | 1.0 |
| Park Area #1 | | | | | 3.0 |
| Park Area 13 | | | | | 3.0 |
| Park Area 16 | | | | | 10.0 |
| Park Area 14 | | | | | 1c.o |
| Park Area #5 | | | | | 8.0 |
| Park Area #7 | | | | | 10.0 2.0 |
| Eastside Park | | | | | 2.0 19.4 |
| East Side Softball Complex Lodi Lake - Expansion | | | | | 13.0 |
| Total Acreage | 368. | 5 180.: | 3 208. | 7 . 96.9 | 83.0 |
| - | | | | | · · • |
| Total Acreage for Standard | (1) | 177. | 8 | | |

Source: City of Lodi.
(1) Century Park is a temporary park and is not included in standards.

relative frequency with which they are expected to use park and recreation facilities.

Existing Deficiencies

Calculation of existing deficiencies $i\,s$ based upon the current standard relative to the future standard for parks and recreation acreage and community building space. In Table 9-3, results of the existing deficiency analysis are presented.

The findings indicate the following. First, the added park acreage in the Proposed Fee Program matches the acreage standard from 3.3/1,000 persons served . As a result the added park acreage can be allocated to new development. Second, the added community building space will match the existing space standard of 1,800/1,000 person served.

Existing deficiencies are not funded through the development impact fee program. In this fee study, alternative funding sources are not specifically identified that would cover parks and recreation existing facilities deficiencies.

TABLE 9-2

INVENTORY OF EXISTING PARK AND RECREATION FACILITIES

| PARK FACILITY | EXISTING STANDARD |
|---------------------------------|------------------------------------|
| Park Acreage | 3.3/1,000 persons served |
| Community Building Area persons | 1,765 sq ft/1,000 served |
| Restrooms | 1/park over 3.0 acres |
| Lighted Baseball Diamonds | ll Total |
| Tot lot | l/park |
| Lighted Tennis Courts | ll Total |
| Swimming Pools | 4 Total |

Source: Nolte and Associates and Angus McDonald & Associates

PLANNED PARK AND RECREATION FACILITIES

A summary of the Parks and Recreation Facility Projects is presented in Table 9-4. Estimated costs are referenced *to* the Engineering News Record 20 Cities Construction Cost Index for January 1990 of 4673. Project descriptions played an important role in preparing the project estimates and were developed in

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TABLE 9-3 EXISTING DEFICIENCIES ANALYSIS PARKS AND RECREATION

21-Aug-91

| Description of Item | Existing Conditions | Future Additions | Future Total |
|---|------------------------|---------------------|-----------------|
| PARK PERSONS SERVED | 53,713 | 24,020 | 77,733 |
| SERVICE CAPACITY | | | |
| Park Acreage | 177.8 | 83.0 | 260.8 |
| Community Center Buildings (Sq. Ft.) | | | |
| 1. Hutchins Street Square Cafeteria 6.4 | | | |
| 2 Camp Hutchins Room 6,0 | | | |
| 3. Hutchins Street Square N. Complex 19,6 | | | |
| 4. Hutchins Street Square Pool Area 5,4 | | | |
| 5. Hutchins Street Square Fine Arts Bldg. 8,7 | | | |
| 6. Recreation Annex, N. Stockton St. 3,5 | | | |
| , | 800 900 | | |
| 9. Grape Festival Pavilion 32,0 | | | |
| 10. Grape Festival Chablis Hal! 9,6 | | | |
| • | 900 | | |
| Total All Building | | 45.1 00 | 139,900 |
| | | | |
| <u> </u> | | | |
| Current Standar | | | |
| Park A 3 Per 1 Persons Ser 1 | 13 | | |
| C 1 Center Sq. Ft. Per 1,000 C Serve | ed ,765 | | |
| lg€ i i rda | | | |
| Park Acres Per ,000 F Served | | | 3.4 |
| t Sq. = Per 1,000 t n St | i | | 1,800 |
| ADDITIONAL SERVICE CAPACITY REQUIR | :FD | | |
| Additional Park Acres | 2.4 | 80.6 | 83.0 |
| Additional Community Center SqFt | 1,870 | 43,230 | 45.100 |
| | | | |
| BURDEN ON NEW AND EXISTING DEVELO Additional Park Acres | <u>DPMENT</u> 3.0% | 97.0% | 100.0% |
| Additional Community Center SqFt | 4.0% | 97.0% 96.0% | 100.0% |
| Additional Community Center Sqrt | 4.070 | 30.070 | 100.070 |

Note: Fee amounts shown are lor fiscal year 1991/1992.

Sources: Nolte & Associates and Angus McDonald 8 Associates.

TABLE 9-4 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING PARKS AND RECREATION

21-Aug-91

| | roject lumber | Description | Program Cost | impact Fee | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2007 |
|------|------------------|--|-----------------|---------------|----------|---------|---------|-----------|-------------|-----------|-------------|-----------|
| N | IPR001 | Parks and Recreation Master Plan. | \$50,000 | \$50,000 | \$50,000 | SO | \$0 | SO | so | so | so | SC |
| N | IPR002 | Administration building expansion at corporation yard. | \$2,864,000 | \$1,289,000 | SO | SO | so | \$128,900 | \$1,180,100 | so | SO | \$0 |
| M | PR003 | Underground tank replacement | \$37,000 | SO | SO | so | so | SO | SO | SO | to | to |
| M | IPRO04 | Lodi Lake Central Park Improvements. | \$868,000 | SO | so | \$0 | so | SO | SO | so | \$0 | so |
| | IPR005 | Lodi Lake peninsula improvements. | \$375,000 | SO | \$0 | so | so | so | \$3 | so | so | \$0 |
| 82 ¥ | IPROOC | Lodi Lake expansion to 13 acre westside area. | \$1,818,000 | \$1,816,000 | SO | SO | so | so | to | \$181,600 | \$1,634,400 | SO |
| M | PR007 | Lodi Lake silt removal. | \$250,000 | SO | SO | SO | SO | to | SO | SO | \$0 | to |
| N | IPROO8 | Lodi Lake Turner Road Retaining Wall. | \$156,000 | SO | \$0 | \$0 | \$0 | so | so | so | \$0 | \$0 |
| M | PROOF | Lodi Lake Utility Extension (Water). | \$133,000 | SO | so | so | \$0 | SO | SO | SO | \$0 | \$0 |
| M | PR010 | Softball complex Concession. | \$79,000 | SO | so | so | SO | so | SO | SO | to | \$0 |
| М | PR011 | Softball Complex replacement of concession stand. | \$107,000 | SO | \$0 | SO | SO | SO | SO | SO | so | \$0 |
| M | PR012 | Softball Complex shade structure. | \$12,000 | \$0 | so | SO | SO | to | SO | 80 | so | \$0 |
| M | PR013 | Softball Complex paving. | \$11,000 | \$0 | SO | SO | \$0 | SO | \$0 | SO | so | SO |
| M | PR014 | Softball Complex upgrade sports lighting. | \$61,000 | SO | SO | SO | so | SO | so | SO | so | SO |

and the second
TABLE 9-4 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING PARKS AND RECREATION

21-Aug-91

| Project Number | Description | Program Cost | Impact Fee | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/98 | 1996/97 | 1997-2002 | 2002- |
|-------------------|---|-----------------|---------------|---------|------------|---------|---------|---------|---------|-----------|--|
| MPR015 | Stadium Electrical & Sports Lighting. | \$122,000 | SO | SO | SO | \$0 | so | SO | \$0 | SO | |
| MPR016 | Stadium Press Box | \$44,000 | SO | SO | so | SO | \$0 | so | SO | to | |
| MPR017 | Stadium Parking Lot Landscape & Lighting | \$81,000 | SO | so | \$0 | SO | so | SO | SO | SO | |
| MPR018 | Stadium Returf & Drainage Improvements | \$136,000 | so | so | so | SO | \$0 | SO | so | so | |
| MPR019 | Stadium Additional Seating | \$82,000 | \$0 | SO | so | SO | to | so | \$0 | SO | |
| MPR020 | Kolu Park Enlarge Bleacher Area | \$25,000 | so | SO | \$0 | SO | SO | to | to | so | |
| MFR021 | Kotu Park New Playground Equipment | \$25,000 | SO | so | so | SO | \$0 | SO | SO | to | |
| MPR022 | Kofu Park Permanent Backstop | \$8,000 | SO | so | \$0 | \$0 | \$0 | SO | SO | \$0 | |
| MPR023 | Kofu Park Group Picnic Facilities | \$7,000 | so | so | to | so | so | so | \$0 | \$0 | |
| MPR024 | Kofu Park Entrance Improvements | \$13,000 | SO | SO | so | SO | SO | SO, | so | \$0 | |
| MFR025 | Armory Park Parking Lot | \$126,000 | SO | SO | so | so | SO | SO | SO | so | ************************************** |
| MPR028 | Armory PerkPress Box & Bleacher Wall | \$27,000 | SO | SO | so | so | so | SO | SO | SO | |
| MPR027 | Armory Park Upgrade Electrical | \$20,000 | \$0 | so | so | SO | SO | \$0 | \$0 | \$0 | |
| MPH028 | Zupo Field Replacement of wood | \$26,000 | \$0 | SO | \$0 | \$0 | to | SO | \$0 | SO | |

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TABLE 94
DEVELOPMENT RELATED CAPITAL COSTS AND PHASING PARKSAM) RECREATION

21-Aug-91

| Project Number | Description | Program Cost | Impact Fee | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2 |
|-------------------|---|-----------------|---------------|---------|-----------|-----------|-----------|-------------|-----------|-------------|--------|
| MPR029 | Zupo FieldUpgrade Electrical & Sports Lighting | \$61,000 | to | so | so | so | SO | so | so | so | |
| MPR031 | Hale Park General Improvements | \$298,000 | SO | \$0 | SO | SO | SO | SO | SO | \$0 | |
| MPR033 | Community Buildings (City-Wide) | \$4,510,000 | \$4,329,600 | so | \$288,640 | \$288,640 | \$288,640 | \$268,640 | \$288,640 | \$1,443,200 | \$1,44 |
| MPR034 | Blakely Park Upgrade Lighting | \$22,000 | SO | so | so | so | SO | SO | so | . \$0 | |
| MPR035 | Salas Fark Protective Shade Structures | \$51,000 | SO | so | so | so | so | \$0 | so | \$0 | |
| MPR036 | Salas Park Fenced Diamond Area | \$9,000 | \$0 | SO. | so | so | so | 50 | so | \$0 | |
| MPR037 | Emerson Park Restroom Replacement | \$178,000 | SO. | so | so | so | so | SO | to | \$0 | |
| MPR038 | Pixely Park (C - Basin) General Improvements | \$465,000 | \$465,000 | so | so | so | so | to | \$3 | \$0 | \$46 |
| MPR039 | Westgate Park Improvements | \$353,000 | \$353,000 | so | SO | \$0 | so | SO | \$353,000 | \$0 | |
| MPR040 | Area #1 Park (3ac.) | \$459,000 | \$459,000 | 50 | so | so | so | SO | so | \$459,000 | |
| MPR041 | Area #3 Park & Pool (3ac.) | \$712,000 | \$712,000 | so | so | so | so | SO | so | SO | \$71 |
| MPR042 | Area #4 Park | \$1,482,000 | \$1,462,000 | so | so | so | so | \$0 | \$0 | so | \$1,46 |
| MPR043 | Area #6 Park Improvements | \$1,377,000 | \$1,377,000 | SO | \$0 | so | so | \$0 | SO | \$688,500 | \$68 |
| MPR044 | Area#5 Park Improvements | \$1,148,000 | \$1,148,000 | \$0 | so | so | \$400,000 | \$400,000 | \$35,000 | \$313,000 | |
| MPR045 | Area #7 Park Improvements | \$1,660,000 | \$1,660,000 | SO | SO. | \$166,000 | so | \$1,494,000 | so | so | |
| MPR046 | Easteide Park General Park Improvements. | \$307,000 | \$307,000 | so | so | to | SO | SO. | so | \$307,000 | |

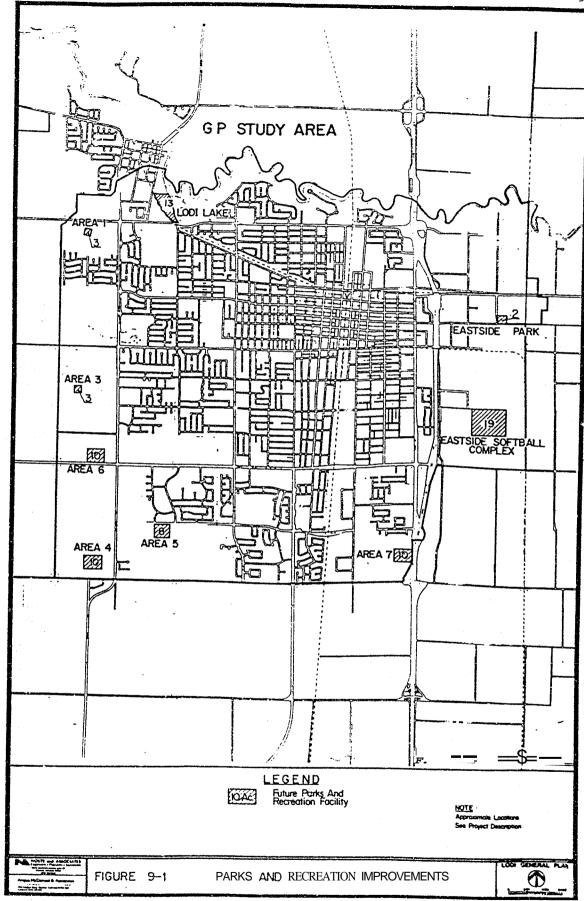
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TABLE 94
DEVELOPMENT RELATED CAPITAL COSTS AND PHASING PARKS AND RECREATION

21-Aug-91

| Project Number | Description | Program Cost | Impact Fee | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2007 |
|-------------------|---|-----------------|---------------|----------|-----------|-----------|-----------|-----------|-----------|-------------|-------------|
| MPR048A | East Side Softball Complex | \$2,669,000 | \$2,338,845 | so | SO | SO | so | SO | SO | SO | \$2,338,845 |
| MPR047 | F-Basin Improvements Park | \$120,000 | \$120,000 | so | \$0 | SO | so | SO | \$0 | SO | \$120,000 |
| MPR048 | I-Basin Improvements Park | \$120,000 | \$120,000 | so | \$0 | so | so | SO | \$0 | \$0 | \$120,000 |
| MPR052 | G-Basin Park Improvements | \$300,000 | \$300,000 | so | SO | SO | so | \$3 | so | \$300,000 | so |
| MPR053 | Hutchins Square Catering Kitchen | \$35,000 | so | SO | SO | so | SO | \$0 | so | SO | SO |
| MPR054 | Hutchins Square Multi-Purpose | \$750,000 | \$0 | \$0 | SO | \$0 | \$0 | so | so | so | SO |
| MPR055 | Hutchina Square Child Care Center | \$568,000 | \$0 | SO | \$0 | so | so | \$0 | so | \$0 | \$0 |
| MPR058 | Hutchine Square Connectors/ Wallways | \$1,000,000 | SO | so | SO | so | SO | SO | SO | SO | so |
| MPR057 | Hutchins Square Auditorium Remodel | \$4,000,000 | so | SO | SO | so | SO | SO | SO | SO | \$0 |
| TOTAL P | ARKS AND REC. | \$30,191,000 | \$18,306,445 | \$50,000 | \$288,640 | \$454,640 | \$817,540 | 3,342,740 | \$858,24C | \$5,145,100 | \$7,349,545 |

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concert with City staff. Project numbers listed in Table 9-4 are used to identify project locations in Figure 9-1. The Parks and Recreation Master Plan is scheduled early in the program to refine details and costs of the new parks.

ESTIMATED COSTS AND PHASING

Improvement and land acquisition costs for parks and recreation facilities are based upon information provided by City staff and the City Capital Improvement Plan. Land costs were determined to be 5100,000 per acre. In cases where land for parks expansion is already owned by the City, the proposed fee program does not pay or reimburse the City for land costs. The fee calculation methodology did not consider different cost increase factors for land acquisition versus construction.

A number of the projects identified by the City are not attributable to new development and more accurately fal7 into the category of maintenance and repair. These projects are easily identified because no cost has been allocated to the impact fee fund.

In Table **9-4**, the phasing of construction costs is presented only for those Parks projects to be funded through the fee program. Phasing of the projects is based upon forecasts provided by the City. The Parks and Recreation Master Plan is scheduled early in the program to refine details and cost **o**f the program.

Analysis of the existing and planned facilities for the corporation yard identified that only a portion of the facilities will serve future growth. Based upon building footage, 45 percent of the planned corporation yard impro ements costs are allocated to future growth.

DEVELOPMENT IMPACT FEE

Relationship of Park and Recreation Projects to New Development

The additional park acres to be added throughout the program serve only new development. The existing deficiency analysis presented in Table 9-3 also shows that the added community center space is serving only new development.

Relationship of Park and Recreation Projects to Land Uses

The RAE schedule for parks and recreation that is shown in Table 9-5 recognized explicitly that, while demand is primarily generated by the residential population, parks and recreation facilities also serve employees. Examples of non-residential demand include lunch time use, company picnics and company team participation in sports leagues.

The RAE schedule was based on the relative amount of time available to residents and to employees to make use of park and recreational facilities.

Recommended Fees

The summary Parks and Recreation fee is shown in Table 9-5. The total fee is \$11,980 per low density residential acre.

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TABLE 9-5 21-Aug-91
SUMMARY OF DEVELOPMENT IMPACT FEES
PARKS AND RECREATION

| [Land Use Categories | Unit | RAE | Fees |
|-------------------------|------|------|-------------------|
| | | | |
| <u>RESIDENTIAL</u> | | | |
| Low Density | Acre | 1.00 | \$1 1,98 0 |
| Medium Density | Acre | 1.43 | \$17130 |
| High Density | Acra | 2.80 | \$33 , 540 |
| East Side Residential | Acre | 1.10 | \$13,180 |
| PLANNED RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$1 1,9 80 |
| Medium Density | Acre | 1.43 | \$17,130 |
| High Density | Acre | 2.80 | \$33,540 |
| COMMERCIAL | | | |
| Neighborhood Commercial | Acre | 0.32 | \$3,830 |
| General Commercial | Acre | 0.32 | \$3,830 |
| Downtown Commercial | Acre | 0.32 | \$3,830 |
| Office Commercial | Acre | 0.54 | \$6,470 |
| INDUSTRIAL | | | |
| Ught Industrial | Acre | 0.23 | \$2,760 |
| Heavy Industrial | Acre | 0.33 | \$3,950 |
| | | | |

Note: Fee amounts shown are for fiscal year 199111992

Sources: Nolte & Associates and Angus McDonald ${\it 8}$ Associates.

CHAPTER 10

GENERAL CITY FACILITIES

OVERVIEW

Level of Service

The current staffing level of service provided by the City of Lodi for general city services (e.g. City manager, finance department) is 1.25 Full Time Equivalents (FTEs) per 1,000 persons served. The current space standard is 229 square feet per FTE. These standards were used as the basis for calculating the percentage of additions to City Hall that would be appropriately charged to either new or existing development.

While there is not a stated level of service for general city facilities there is an implied standard based on the current level of city employees and building space per city employee. The service standard used to examine the existing deficiencies for General City Facilities includes demands for general city services generated by business as well as demand by residents.

A "Persons Served" standard is calculated by estimating the demand or use of general city services by persons associated with each land use type. Instead of determining the use by each unit of land developed, as is the procedure with RAE factors, the use for each land use is converted into a use per person. In the case of residential land uses this takes the form of use per resident, and in the case of non-residential uses is a use per employee. These use per "per person served" figures are then normalized around the Single Family land use to produce '*Persons Served" factors which are applied to a forecast of the total number of residents and employees from each land use to compute the total persons served from new developments.

Existing Deficiencies

Table 10-1 presents the results of the existing deficiency analysis. In the case of the City Hall addition, both the staffing standard and the space standard are increased over the planning period. As a result, a portion (27.8%) of the addition can not be funded from development impact fees.

PLANNED GENERAL CITY FACILITIES

In Table 10-2, a listing of General City Facilities Projects is provided. Included in the listing are those capital improvements and expenditures identified by City Department heads in their budget forecasts for 2006/7.

ESTIMATED COST AND PHASING

A summary of the phasing of projects funded by the fee program is provided in Table 10-2. Phasing of the projects is based upon the forecast of units constructed over the General Plan period.

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TABLE 10-1 EXISTING DEFICIENCIES ANALYSIS CITY HALL FACILITIES

| | | Current | Change 1 989/90 – | End State |
|-------------------------|---------|---------|-----------------------------|--------------|
| Personnel | Units | 1989190 | 2007/08 | 2007108 |
| - Administration | Persons | 13 | 8 | 21. |
| Finance(w/o Purchasing) | Persons | 28 | 14 | 42 |
| Purchasing (FT) | Persons | 5 | 3 | 8 |
| Purchasing (PT) | Persons | 1 | - 1 | 0 |
| Data Processing | Persons | 5 | 13 | 18 |
| Building (CDD) | Persons | 6 | 5 | 11 |
| Planning (CDD) | Persons | 5 | 4 | 9 |
| Public Works | Persons | 19 | 9 | 28 |
| Totals: | | 82 | 55 | 137 |

| | | FTE Conversion | Current | Change 1989/90 | End State |
|---------------------------------|-----------|-------------------|---------|-------------------|--------------|
| Personnel | Units (1) | Factor Factor | 1989190 | 2007108 | 2007108 |
| Administration | FTE | 100% | 13.0 | 8.0 | 21.0 |
| Finance(w/o Purchasing) | FTE | 100% | 28.0 | 14.0 | 42.0 |
| Purchasing (FT) | FTE | 100% | 5.0 | 3.0 | 8.0 |
| Purchasing (PT) | RE | 50% | 0.5 | -0.5 | 0.0 |
| Data Processing | FTE | 100% | 5.0 | 13.0 | 18.0 |
| Building (CDD) | RE | 100% | 6.0 | 5.0 | 11.0 |
| Planning (CDD) | FTE | 100% | 5.0 | 4.0 | 9.0 |
| Public Works | FTE | 100% | 19.0 | 9.0 | 28.0 |
| Total Units | | | 81.5 | 55.5 | 137.0 |
| Building Area Square Feet | | | 18,657 | 14,448 | 33,105 |
| Total Persons Served | | | 64,906 | 30,064 | 94,970 |
| Staffing Standard: | | | | | |
| FTE's per 1,000 Person's Served | | | 1.26 | 0.19 | 1.44 |
| Space Standard: | | | | | |
| Area Per Employee (FTE) | | | 228.92 | 12.72 | 241.64 |
| | | | | | |

Source: Noite & Associates and Angus McDonald & Associates

| Frg.q | | Existing | Future | Future |
|---|--|-------------|-------------|---------------|
| | Description of Item | Population | Additions | Total |
| | GENERAL GOVERNMENT PERSONS SERVED | 64,906 | 30,064 | 94,970 |
| lond | SERVICE CAPACITY General Government Employees (Full | 81.5 | 55.5 | 137.0 |
| | Time Equivalent (FTEs)) General Government Buildings (Sq. Ft.) | 18,657 | 14,448 | 33,105 |
| • · · · · · · · · · · · · · · · · · · · | SERVICE STANDARD Current Service Standard: General Government Employees Per | 1.3 | | |
| | 1,000 Persons Served Building Sq. Ft. Per Employee | 228.9 | | |
| | Target Service Standard General Government Employees Per 1,000 Persons Served | | | 1.4 |
| | Building Sq. Ft. Per Employee | | | 241.6 |
| | ADDITIONAL SERVICE CAPACITY REQUIRED Additional Employees (Full Time Equivalent (FTE)) | 12.1 | 43.4 | 55 . 5 |
| | Additional Building Area (Sq. Ft.) For Existing Employees | 1,037 | | 1,037 |
| <u> </u> | For New Employees | 2,931 | 10,480 | 13,411 |
| | Total | 3,968 | 10,480 | 14,448 |
| Ç. | Burden on New and Existing Development | 27.5% | 72.5% | 100.0% |
| | Cost of New Facilities Source: Noite & Associates and Angus McDonald & Associates | \$1,159,125 | \$3,055,875 | \$4,215,000 |

TABLE 10 - 2 DEVELOPMENT RELATED CAPITAL COSTS AND PHASING **GENERAL CITY FACILITIES**

21/08/91

| | | | <u> </u> | | | | | | | | |
|-------------------|--|---------------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|-------------|
| Project Number | Location | Program Costs | Impact Fee | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997-2002 | 2002-2007 |
| GCFl001 | City Halt Remodel and Addition | \$ 4,215,000 | \$3,065,875 | SO | \$700,000 | \$700,000 | so | SO | SO | \$1,655,875 | so |
| GCF1002 | Civic Center PukingLot Expansion 13 N. Church. | \$141,000 | \$141,000 | SO | SO | SO | so | so | \$141,000 | so | so |
| GCFI008 | Property acquisition, 217E. Lockelord. | \$213,000 | \$213,000 | so | so | so | \$0 | so | so | so | \$213,000 |
| GCF1009 | Parking Lot Improvements, NE corner of Lockeford and Stockton. | \$70,000 | \$70,000 | SO | SO | so | \$0 | SO | \$0 | so | \$70,000 |
| GCFI010 | Library Expansion | \$2,900,000 | \$2,900,000 | SO | SO | so | so | SO | SO | \$2,900,000 | SO |
| GCFI011 | Publik Works Trucks | \$750,000 | \$750,000 | 548.875 | 544875 | \$48,875 | \$46,875 | \$48,875 | \$46,875 | \$234,375 | \$234,375 |
| GCFI012 | Public Works - Pickups and Sedans | \$715,000 | \$715,000 | \$44,688 | \$44,688 | \$44,628 | \$44,688 | \$44,688 | \$44,688 | \$223,438 | \$223,438 |
| GCFI013 | Public Works - Air Compressors | \$90,000 | \$90,000 | \$5,825 | \$5,825 | \$5,625 | 55.825 | 55.825 | 55.825 | \$28.125 | \$28.125 |
| GCFI014 | Public Works "Misc. Office Equipment | \$65,500 | \$65,500 | \$4,094 | \$4,094 | \$4,094 | \$4,094 | \$4,094 | \$4,094 | \$20,469 | \$20,469 |
| GCFI015 | Finance - Misc. Office Equipment | \$181,700 | \$181,700 | \$11,356 | \$11,356 | \$11,356 | \$11,358 | \$11,356 | \$11,356 | \$ 58,781 | \$56,761 |
| GCFI016 | Finance Computer (AS 400 Upgrade) | \$72,000 | \$72,000 | \$4,500 | \$4,500 | \$4,500 | \$4,500 | \$4,500 | \$4,500 | \$22,500 | \$22,500 |
| GCFI017 | Fee Program Monitoring | \$2,560,000 | \$2,560,000 | \$160,000 | \$160,000 | \$160,000 | \$160,000 | \$160,000 | \$180,000 | \$800,000 | \$800,000 |
| CODV001 | General Plan Update 1987 | \$ 411,109 | \$411,109 | \$411,109 | SO | so | \$0 | \$0 | SO | SO | \$0 |
| CODV002 | General Plan Update 1997 | \$250,000 | \$250,000 | SO | SO | SO | \$0 | \$0 | \$250,000 | so | so |
| CODV003 | General Plan Update 2002 | \$250,000 | \$250,000 | SO | SO | SO | SO | SO | SO | \$250,000 | so |
| TOTAL CI | TY FACILITIES | \$12,884,309 | \$11,725,184 | \$688,247 | \$977,138 | \$977,138 | \$277,138 | \$277,138 | \$668,138 | \$6,191,563 | \$1,668,688 |

DEVELOPMENT IMPACT FEE

Relationship of General City Projects to New Development

The relationship between existing deficiencies, changing service standards and demand created by new development was presented in Table 10-1. This exhibit was used to allocate responsibility for financing between Development Impact Fees and other sources of financing.

Relationship of General City Projects to Land Uses

The RAE schedule that has been developed for general City facilities is shown in Table 10-3. This schedule is based on an estimate of relative population and employment (measured in persons per household and in employees per thousand square feet, respectively) and on the judgment that employees place a relative burden on general City administrative facilities that is 50 percent of that imposed by residents.

Recommended Fees

The summary General City Facilities fee is shown in Table 10-3. The total fee is 36,380 per low density residential acre.

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TABLE 10-3

21-Aug-91

SUMMARY OF DEVELOPMENT IMPACT FEES GENERAL CITY FACILITIES

| Land Use Categories | Unit | RAE | Fee |
|-------------------------|------|------|----------|
| | | | |
| RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$6,380 |
| Medium Density | Acre | 1.43 | \$9,120 |
| High Density | Acre | 2.80 | \$17,860 |
| East Side Residential | Acre | 1.10 | \$7,020 |
| PLANNED RESIDENTIAL | | | |
| Low Density | Acre | 1.00 | \$6,380 |
| Medium Density | Acre | 1.43 | \$9,120 |
| High Density | Acre | 2.80 | \$17,860 |
| COMMERCIAL | | | |
| Neighborhood Commercial | Acre | 0.89 | \$5,680 |
| General Commercial | Acre | 0.89 | \$5,680 |
| Downtown Commercial | Acre | 0.89 | \$5,680 |
| Office Commercial | Acre | 1.53 | \$9,760 |
| INDUSTRIAL | | | |
| Light Industrial | Acre | 0.64 | \$4,080 |
| Heavy Industrial | Acre | 0.93 | \$5,930 |

Note: Fee amounts shown are for fiscal year 1991/1992.

Sources: Nolte & Associates and Angus McDonald & Associates.

APPENDIX A

FORECAST OF MAPPED ACREAGE FOR PROPOSED GENERAL PLAN

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TABLE A-1

GENERAL PLAN ACREAGE GROUTH FORECAST
'CIT OF LODI PUBLIC FACILITIES FINANCING PLAN

| Land_Use_Categories | Units | 1991/92 | 1992/93 | 1993/94 | 1994/95 | 1995/96 | 1996/97 | 1997 /2002 | 2002 /2007 | Total Forecast |
|-----------------------------|----------------|----------|----------------|---------|---------|---------|---------|---------------|---------------|-------------------|
| RESIDENTIAL | | | | | | | | | | |
| Low Density | Acres | 3 | 2 | 2 1 | 2 1 | 2 1 | 2 1 | 2 1 | 2 | 17 7 |
| Medium Density High Density | Acres Acres | 1 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 5 |
| East Side Residential | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| PLANNED RESIDENTIAL | | | | | | | | | | |
| PR - Low Density | Acres | 74 | 82 | 74 | 61 | 66 | 61 | 267 | 288 | 973 |
| PR - Medium Density | Acres Acres | 5 6 | 5 7 | · 5 | · 4 | 4 5 | 4 5 | 17 21 | 18 23 | 62 78 |
| PR - High Density | Acres | | | | | | | | | |
| | | | | | • | 78 | 74 | 310 | 333 | 1,143 |
| Total Residential | 100 | 89 | 97 | 88 | 74 | /8 | /4 | 310 | 333 | 1,143 |
| COMMERCIAL | | | | | | | • | | | |
| Ne ighborhood | Acres | 15 | 15 | 6 | 6 | 6 | 6 | 25 | 26 3 | 105 11 |
| General | Acres | 0 | 1 0 | 1 0 | 1 0 | 1 | · 1 | 3 1 | . 1 | 3 |
| Downtown Office | Acres Acres | 2 | 5 | 2 | 2 | ž | ž | 11 | 11 | 34 |
| | | | i Nga Wajar | | | | | | | |
| Total Commercial | | 17 | 18 | 9 | 9 | 10 | 9 | 40 | 41 | 153 |
| | | | | | | | | | | |
| INDUSTRIAL | | | | | N 4 32 | | | | 105 | 426 |
| Light Industrial | Acres Acres | 26 10 | 17 7 | 22 9 | 22 9 | 22 9 | 22 9 | 139 56 | 165 66 | 435 175 |
| | | | | | | | | | | |
| Total Industrial | | 36 | 24 | 31 | 31 | 31 | 31 | 195 | 231 | 610 |

Source: City of Lodi Public Works Department.

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